

状态表

日立二极管

HITACHI DIODE

HITACHI  
Inspire the Next

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# Variable Capacitance Diodes for Electronic Tuning

Application		Package Code	Type No.	Ratings V <sub>R</sub> (V)	Characteristics				Status		
					C (pF)		n	C <sub>VR</sub> /C <sub>VR</sub>		rs (Ω) max	
BS/CS Tuner	Tuning	URP	HVU316	30	C1 = 5.16~7.22, C25 = 0.48~0.76		9.0 min	1/25	1.2	○★	
			HVU417C	30	C0.5 = 7.8~9.4, C25 = 0.5~0.6		13.0 min	1/25	1.5	SPL	
		UFP	HVC316	30	C1 = 5.16~7.22, C25 = 0.48~0.76		9.0 min	1/25	2.2	△★	
HVC317B	35		C1 = 9.00~11.50, C25 = 0.60~0.80		13.0min	1/25	1.6	○★			
HVC417C	30		C1 = 7.8~9.4, C25 = 0.5~0.6		13.0min	1/25	1.5	△★			
TV Tuner	UHF Tuning	URP	HVU202A	34	C2 = 14.11~16.47, C25 = 2.06~2.35		6.2 min	2/25	0.57	○★	
			HVU202B	35 <sup>^</sup>	C2 = 14.15~15.75, C25 = 2.06~2.35		6.3 min	2/25	0.57	○★	
		UFP	HVC202A	34	C2 = 14.11~16.47, C25 = 2.06~2.35		6.2 min	2/25	0.57	○★	
			HVC202B	35 <sup>^</sup>	C2 = 14.15~15.75, C25 = 2.06~2.35		6.3 min	2/25	0.57	○★	
		VHF Tuning	URP	HVU200A	32	C2 = 27.7~31.8, C25 = 2.67~3.03		10.0 min	2/25	0.7	○★
				HVU300A	32	C2 = 39.5~47.4, C25 = 2.6~3.03		14.5 min	2/25	1.10	○★
	HVU300B			34	C2 = 47.0~53.0, C25 = 2.65~3.00		17.0 min	2/25	1.1	○★	
	HVU306A			32	C2 = 29.3~34.2, C25 = 2.57~2.92		11.0 min	2/25	0.75	○★	
	HVU306B			34	C2 = 29.5~33.5, C25 = 2.60~2.90		11.0 min	2/25	0.75	○★	
	HVU307			32	C2 = 32.2~37.5, C25 = 2.57~3.0		12.0 min	2/25	0.85	○★	
	UFP		HVU363A	32	C1 = 34.65~42.35, C28 = 2.361~2.754		13.5 min	1/28	0.75	○★	
			HVU363B	32	C1 = 36.0~42.0, C28 = 2.36~2.75		13.7 min	1/28	0.75	○★	
			HVC200A	32	C2 = 27.7~31.8, C25 = 2.67~3.03		10.0 min	2/25	0.7	○★	
			HVC300A	32	C2 = 39.5~47.4, C25 = 2.6~3.03		14.5 min	2/25	1.10	○★	
			HVC300B	34	C2 = 47.0~53.0, C25 = 2.65~3.00		17.0 min	2/25	1.1	○★	
			HVC306A	32	C2 = 29.3~34.2, C25 = 2.57~2.92		11.0 min	2/25	0.75	○★	
			HVC306B	34	C2 = 29.5~33.5, C25 = 2.60~2.90		11.0 min	2/25	0.75	○★	
			HVC363A	32	C1 = 34.65~42.35, C28 = 2.361~2.754		13.5 min	1/28	0.75	※★	
	AFC	UFP	HVC363B	32	C1 = 36.0~42.0, C28 = 2.36~2.75		13.7 min	1/28	0.75	△★	
			HVC308A	35	C2 = 13.7~15.9, C20 = 1.65~2.06		7.12 min	2/20	0.95	○★	
VCO	URP	HVU17	15	C1 = 50~85, C3 = 16.1~27.3, C4.5 = 5.23~8.84		5.6 min	1/4.5	—	○★		
		HVU350B	15	C1 = 15.5~17.0, C4 = 5.0~6.0		2.8 min	1/4	0.5	○★		
		HVU355B	15	C1 = 6.4~7.2, C4 = 2.55~2.95		2.2 min	1/4	0.6	○★		
		HVU359	15	C1 = 24.8~29.8, C4 = 6.0~8.3		3.0 min	1/4	1.5	○★		
		HVU383B	15	C1 = 19.0~21.0, C4 = 8.5~10.0, C7 = 4.5~5.5		2.0min	1/4	0.5	△★		
	UFP	HVC350B	15	C1 = 15.5~17.0, C4 = 5.0~6.0		2.8 min	1/4	0.5	○★		
		HVC355B	15	C1 = 6.4~7.2, C4 = 2.55~2.95		2.2 min	1/4	0.6	○★		
		HVC358B	15	C1 = 19.5~21.0, C4 = 8.00~9.30		2.2min	1/4	0.4	○★		
		HVC359	15	C1 = 24.8~29.8, C4 = 6.0~8.3		3.0 min	1/4	1.5	○★		
		HVC362	15	C1 = 41.6~49.9, C4 = 10.1~14.8		3.0 min	1/4	2.0	○★		
		HVC365	15	C1 = 27.05~28.55, C4 = 6.05~7.55		3.0 min	1/4	1.5	○★		
		HVC368B	10	C1 = 15.0~16.5, C2 = 9.0~10.2, C3 = 5.0~6.0		2.2 min	1/3	1.1	○★		
		HVC369B	15	C1 = 4.65~5.15, C4 = 1.85~2.15		2.3 min	1/4	0.5	○★		
		HVC372B	15	C1 = 15.0~17.0, C4 = 7.0~8.5		2.0 min	1/4	0.4	○★		
		HVC374B	10	C1 = 21.5~24.0, C2 = 12.5~14.5		1.68~1.75	1/2	1.2	○★		
		HVC375B	10	C1 = 15.0~16.5, C3 = 5.0~6.0, C4 = 3.3~4.0		4.0 min	1/4	1.1	○★		
		HVC376B	15	C1 = 25.0~28.5, C4 = 4.8~6.8		4.3 min	1/4	0.8	○★		
		HVC379B	10	C0.5 = 2.9~3.20, C2.5 = 1.25~1.53		1.8 min	0.5/2.5	1.0	△★		
		HVC380B	15	C1 = 2.88~3.12, C3 = 1.66~1.795, C4=1.36~1.471		1.7~1.84	1/3	0.8	△★		
			2.08~2.25	1/4							
		HVC381B	15	C1 = 10.0~11.0, C3 = 5.8~6.4		1.65 min	1/3	0.5	△★		
		HVC383B	15	C1 = 19.0~21.0, C4 = 8.5~10.0, C7 = 4.5~5.5		2.0min	1/4	0.5	△★		
			3.5min	1/7							
		HVC385B	15	C0.5 = 7.20~7.70, C2.5 = 2.70~3.20		2.43~2.57	0.5/2.5	0.75	△★		
		HVC386B	15	C1 = 43.0~49.0, C4 = 18.5~25.5		1.80 min	1/4	0.85	△★		
		HVC396C	10	C1 = 14.5~17.5, C4 = 5.2~6.5		2.3 min	1/4	0.4	SPL		
		SFP	HVD350B	15	C1 = 15.5~17.0, C4 = 5.0~6.0		2.8 min	1/4	0.5	△★	
			HVD355B	15	C1 = 6.4~7.2, C4 = 2.55~2.95		2.2 min	1/4	0.6	△★	
			HVD358B	15	C1 = 19.5~21.0, C4 = 8.00~9.3		2.2 min	1/4	0.4	△★	
			HVD359	15	C1 = 24.8~29.8, C4 = 6.0~8.3		3.0 min	1/4	1.5	△★	
	HVD365		15	C1 = 27.05~28.55, C4 = 6.05~7.55		3.0 min	1/4	1.5	△★		
	HVD368B		10	C1 = 15.0~16.5, C2 = 9.0~10.2, C3 = 5.0~6.0		2.2 min	1/3	1.1	△★		
	HVD369B		15	C1 = 4.65~5.15, C4 = 1.85~2.15		2.3 min	1/4	0.5	△★		
	HVD372B		15	C1 = 15.0~17.0, C4 = 7.0~8.5		2.0 min	1/4	0.4	△★		
	HVD380B		15	C1 = 2.88~3.12, C3 = 1.66~1.795, C4=1.36~1.471		1.7~1.84	1/3	0.8	△★		
			2.08~2.25	1/4							
	HVD381B		15	C1 = 10.0~11.0, C3 = 5.8~6.4		1.65min	1/3	0.5	△★		
	HVD385B		15	C0.5 = 7.20~7.70, C2.5 = 2.70~3.20		2.43~2.57	0.5/2.5	0.75	△★		
	HVD396C		10	C1 = 14.5~17.5, C4 = 5.2~6.5		2.3 min	1/4	0.4	SPL		
	EFP		HVL358B	15	C1 = 19.5~21.0, C4 = 8.0~9.3		2.2 min	1/4	0.4	SPL	
			HVL385B	15	C0.5 = 7.20~7.70, C2.5 = 2.70~3.20		2.43~2.57	0.5/2.5	0.75	SPL	
		HVL396C	10	C1 = 14.5~17.5, C4 = 5.2~6.5		2.3 min	1/4	0.4	SPL		
		HVL397C	15	C1 = 27.0~28.5, C2 = 18.0~20.0, C4 = 6.8~8.5		1.3 min	1/2	1.2	SPL		
			2.9 min	1/4							
	MPAK	HVM28BWK	15	C1 = 68.0~72.0, C2 = 34.0~38.0		1.8 min	1/2	0.5	△★		
		CMPAK	15	C1 = 4.50~5.00, C3 = 1.85~2.80		1.8~2.6	1/3	1.20	△★		
		CMPAK-4	15	C1 = 15.5~17.0, C4 = 5.0~6.0		2.8 min	1/4	0.5	○★		
		FM Tuner	Tuning	MPAK	HVM16	14	C2 = 43.0~48.1, C8 = 24.6~29.2		1.65~1.75	2/8	—
	HVM27WK				20	C1 = 52.0~62.0, C2 = 43.0~48.1, C8 = 24.0~28.0		1.8 min	1/8	0.4	○★
	CMPAK		HVB27WK	15	C1 = 52.0~62.0, C2 = 43.0~48.0, C8 = 24.0~28.0		1.7 min	2/8	—	○★	
1.8 min		1/8		0.4	○★						
AM Tuning	Tuning	SRP	HVR100	15	C1 = 421.5~524.6, C8 = 20.4~28.2		16 min	1/8	—	○★	

## High Frequency Switching Diodes

Application	Package Code	Type No.	Ratings			Characteristics								Status
			V <sub>R</sub> (V)	I <sub>F</sub> (mA)	P <sub>d</sub> (mW)	V <sub>F</sub> (V) max	I <sub>F</sub> (mA)	C (pF) max	V <sub>R</sub> (V)	f (MHz)	r <sub>f</sub> (Ω) max	I <sub>F</sub> (mA)	f (MHz)	
High frequency switching	MPAK	HSM2694	35	—	150	1.0	10	1.2	6	1	0.9	2	100	○☆
	URP	HSU277	35	—	150	1.0	10	1.2	6	1	0.7	2	100	○☆
	UFP	HSC277	35	—	150	1.0	10	1.2	6	1	0.7	2	100	○☆

## PIN Diodes for Antenna Switching

Application	Package Code	Type No.	Ratings			Characteristics								Status
			V <sub>R</sub> (V)	I <sub>F</sub> (mA)	P <sub>d</sub> (mW)	V <sub>F</sub> (V) max	I <sub>F</sub> (mA)	C (pF) max	V <sub>R</sub> (V)	f (MHz)	r <sub>f</sub> (Ω) max	I <sub>F</sub> (mA)	f (MHz)	
Antenna switching	URP	HVU131	60	100	150	1.0	10	0.8	1	1	1.0	10	100	○☆
		HVU132	60	100	150	1.0	10	0.5	1	1	2.0	10	100	○☆
		HVU133	30	—	150	0.85	2	1	1	1	0.7	2	100	○☆
		HVU134	60	100	150	1.0	10	0.4	1	1	2.0	10	100	△☆
		HVU145	60	50	150	0.9	2	0.45	1	1	1.8	10	100	SPL
	UFP	HVC131	60	100	150	1.0	10	0.8	1	1	1.0	10	100	○☆
		HVC132	60	100	150	1.0	10	0.5	1	1	2.0	10	100	○☆
		HVC133	30	—	150	0.85	2	1	1	1	0.7	2	100	○☆
		HVC134	60	100	150	1.0	10	0.4	1	1	2.0	10	100	△☆
		HVC135	60	100	150	0.9	2	0.6	1	1	2.0	2	100	○☆
		HVC136	60	100	150	0.9	2	0.45	1	1	2.5	2	100	○☆
		HVC142	30	100	150	1.0	10	0.35	1	1	1.5	10	100	○☆
		HVC145	60	50	150	0.9	2	0.45	1	1	1.8	10	100	△☆
		SFP	HVD131	60	100	150	1.0	10	0.8	1	1	1.0	10	100
	HVD132		60	100	150	1.0	10	0.5	1	1	2.0	10	100	△☆
	HVD133		30	—	150	0.85	2	1	1	1	0.7	2	100	△☆
	HVD135		60	100	150	0.9	2	0.6	1	1	2.0	2	100	△☆
	HVD136		60	100	150	0.9	2	0.45	1	1	2.5	2	100	△☆
	HVD138		30	100	150	0.9	2	0.9	1	1	1.1	2	100	○☆
	HVD141		30	100	150	1.0	10	0.82	1	1	0.8	10	100	○☆
	HVD142		30	100	150	1.0	10	0.35	1	1	1.5	10	100	○☆
	HVD144		30	100	150	0.9	2	0.45	1	1	2.0	2	100	△☆
	HVD145		60	50	150	0.9	2	0.45	1	1	1.8	10	100	△☆
	EFP	HVL138	NEW 30	100	100	0.9	2	0.9	1	1	1.1	2	100	SPL
		HVL142	NEW 30	100	100	1.0	10	0.35	1	1	1.5	10	100	SPL
		HVL144	NEW 30	100	100	0.9	2	0.45	1	1	2.0	2	100	SPL
		HVL145	NEW 60	50	100	0.9	2	0.45	1	1	1.8	10	100	SPL

## PIN Diodes for Attenuator

Application	Package Code	Type No.	Ratings			Characteristics								Status
			V <sub>R</sub> (V)	I <sub>F</sub> (mA)	P <sub>d</sub> (mW)	V <sub>F</sub> (V) max	I <sub>F</sub> (mA)	C (pF) max	V <sub>R</sub> (V)	f (MHz)	r <sub>f</sub> (Ω) max	I <sub>F</sub> (mA)	f (MHz)	
Attenuator	MPAK	HVM14	50	50	100	1	50	0.25 typ	50	1	7	10	100	○☆
		HVM14S	50	50	100	1	50	0.25 typ	50	1	7	10	100	○☆
		HVM14SR	50	50	100	1	50	0.25 typ	50	1	7	10	100	○☆
		HVM187S	60	50	100	1	10	2.4	0	1	5.5	10	100	○☆
		HVM187WK	60	50	100	1	10	2.4	0	1	5.5	10	100	○☆
	HVM189S	60	50	100	1	10	1.8	0	1	5.5	10	100	△☆	
	URP	HVU187	60	50	100	1	10	2.4	0	1	5.5	10	100	○☆
	CMPAK	HVB14S	50	50	100	1	50	0.25 typ	50	1	7	10	100	○☆
		CMPAK-4	HVB187YP	60	50	100	1	10	2.4	0	1	5.5	10	100

注) ○: 正在批量生产  
 SPL: 样品正在发货  
 △: 可以批量生产 (有关交货日期请向负责销售的人员确认。)  
 ※: 限定品种  
 ★: 大量订货对象品种 (订货单位为“500个的整数倍”)  
 ☆: Taping 交货品种 (订货单位为第13页所载体个数的整数倍) 有关MPAK的内部连接请参见第15页。  
 ▲: VRM值, R<sub>L</sub> = 10kΩ

## Small Signal Diodes

Application	Package Code	Type No.	Ratings				Characteristics							Status
			V <sub>R</sub> (V)	I <sub>o</sub> (mA)	I <sub>FSM</sub> (A)	P <sub>d</sub> (mW)	V <sub>F</sub> (V) max	I <sub>F</sub> (mA)	t <sub>rr</sub> (ns) max	I <sub>F</sub> (mA)	C (pF) max	V <sub>R</sub> (V)	f (MHz)	
High speed switching	DO-35	1S2074(H)	45	150	0.6	250	0.8	10	4.0	10	3.0	1	1	○★
		1S2075(K)	30	100	0.6	250	0.8	10	8.0	10	3.5	1	1	○★
		1S2076	30	150	1	250	0.8	10	8.0	10	3.0	1	1	○★
		1S2076A	60	150	1	250	0.8	10	8.0	10	3.0	1	1	○★
	MHD	1SS119	30	150	1	250	0.8	10	3.5	10	3.0	1	1	○★
		1SS120	60	150	1	250	0.8	10	3.5	10	3.0	1	1	○★
		1SS270	30	150	1	250	0.8	10	3.5	10	3.0	1	1	○★
		1SS270A	60	150	1	250	0.8	10	3.5	10	3.0	1	1	○★
	HSS104	35	110	0.4	300	1.2	100	3.0	10	3.0	0.5	1	1	○★
	LLD	HSK120	60	150	4	—	0.8	10	3.0	10	3.0	0	1	△☆
	MPAK	HSM123	80	100	4	—	1.2	100	3.0	10	4.0	0	1	△☆
		HSM124S	80	100	4	—	1.2	100	100	10	4.0	0	1	○☆
		HSM221C	80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆
		HSM223C	80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆
		HSM2836C	80	100	4	—	1.2	100	20	10	4.0	0	1	○☆
		HSM2838C	80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆
	URP	HSU119	80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆
	UFP	HSC119	80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆
	CMPAK	HSB123	80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆
		HSB124S	80	100	4	—	1.2	100	100	10	4.0	0	1	○☆
HSB2836		80	100	4	—	1.2	100	20	10	4.0	0	1	○☆	
HSB2838		80	100	4	—	1.2	100	3.0	10	2.0	0	1	○☆	
High voltage switching	DO-35	1SS81	150	200	1	400	1.0	100	100	30	1.5 typ	0	1	○★
		1SS82	200	200	1	400	1.0	100	100	30	1.5 typ	0	1	○★
		1SS83	250	200	1	400	1.0	100	100	30	1.5 typ	0	1	○★
	MHD	HSS81	150	150	1	400	1.0	100	100	30	1.5 typ	0	1	○★
		HSS82	200	150	1	400	1.0	100	100	30	1.5 typ	0	1	○★
		HSS83	250	150	1	400	1.0	100	100	30	1.5 typ	0	1	○★
	LLD	HSK83	250	150	1	—	1.0	100	100	30	1.5 typ	0	1	△☆
		HSK122	400	150	1	—	1.2	100	10μs	30	10	0	1	△☆
	MPAK	HSM83	250	100	2	—	1.2	100	100	30	3.0	0	1	○☆
	URP	HSU83	250	100	2	—	1.2	100	100	30	3.0	0	1	○☆
	CMPAK	HSB83	250	100	2	—	1.2	100	100	30	3.0	0	1	○☆
	CMPAK-4	HSB83YP	250	100	2	—	1.2	100	100	30	3.0	0	1	△☆

注) (H), (K) 为高可靠性产品。

## Schottky Barrier Diodes for Detector and Mixer

Application	Package Code	Type No.	Ratings				Characteristics					Status
			V <sub>R</sub> [VRRM] (V)	I <sub>O</sub> [IF] (mA)	I <sub>F</sub> (mA) min	V <sub>F</sub> (V)	V <sub>F</sub> (V) max	I <sub>F</sub> (mA)	C (pF) max	V <sub>R</sub> (V)	f (MHz)	
Detector and mixer	DO-35	1SS86	3	30	8	0.5	—	—	0.85	0.5	1	○★
		1SS88	10	15	—	—	0.43	1	0.97	0	1	○★
		1SS106	10	30	4.5	1.0	—	—	1.5	1	1	○★
	MHD	1SS198	10	30	4.5	1.0	—	—	1.5	1	1	○★
		1SS286	25	[35]	—	—	0.6	10	1.2	0	1	○★
	URP	HSU88	10	15	—	—	0.42	1	0.8	0	1	○☆
		HSU227	[25]	50	—	—	0.35	1	3.0	1	1	○☆
		HSU276	3	30	35	0.5	—	—	0.85	0.5	1	○☆
		HSU276A	[5]	30	35	0.5	—	—	0.85	0.5	1	△☆
	UFP	HSC88	10	15	—	—	0.42	1	0.8	0	1	△☆
		HSC226	[25]	[50]	—	—	0.33	1	2.8	1	1	△☆
		HSC276	3	30	35	0.5	—	—	0.85	0.5	1	○☆
		HSC276A	[5]	30	35	0.5	—	—	0.85	0.5	1	○☆
	SFP	HSC278	30	30	—	—	0.3	1	1.5	1	1	△☆
		HSD88	10	15	—	—	0.42	1	0.8	0	1	△☆
		HSD226	NEW [25]	[50]	—	—	0.33	1	2.8	1	1	SPL
		HSD276A	[5]	30	35	0.5	—	—	0.85	0.5	1	△☆
	MPAK	HSD278	30	30	—	—	0.3	1	1.5	1	1	△☆
		HSM88AS	10	15	—	—	0.42	1	0.85	0	1	○☆
		HSM88ASR	10	15	—	—	0.42	1	0.85	0	1	○☆
		HSM88WA	10	15	—	—	0.42	1	0.85	0	1	○☆
		HSM88WK	10	15	—	—	0.42	1	0.85	0	1	○☆
		HSM198S	10	30	4.5	1.0	—	—	1.5	1	1	○☆
		HSM276AS	[5]	30	35	0.5	—	—	0.9	0.5	1	△☆
		HSM276ASR	[5]	30	35	0.5	—	—	0.9	0.5	1	△☆
		HSM276S	3	30	35	0.5	—	—	0.9	0.5	1	○☆
		HSM276SR	3	30	35	0.5	—	—	0.9	0.5	1	○☆
	CMPAK	HSB226S	[25]	[50]	—	—	0.33	1	2.8	1	1	△☆
		HSB226WK	[25]	[50]	—	—	0.33	1	2.8	1	1	△☆
		HSB276S	3	30	35	0.5	—	—	0.9	0.5	1	○☆
		HSB276AS	[5]	30	35	0.5	—	—	0.9	0.5	1	△☆
		HSB278S	30	30	—	—	0.3	1	1.5	1	1	○☆
		HSB88AS	10	15	—	—	0.42	1	0.8	0	1	△☆
		HSB88WA	10	15	—	—	0.42	1	0.8	0	1	○☆
		HSB88WK	10	15	—	—	0.42	1	0.8	0	1	△☆
	CMPAK-4	HSB0104YP	[40]	[100]	—	—	0.58	100	20typ	0	1	○☆
		HSB226YP	[25]	[50]	—	—	0.33	1	2.8	1	1	△☆
		HSB88YP	10	15	—	—	0.42	1	0.8	0	1	△☆
		HSB276AYP	[5]	30	35	0.5	—	—	0.85	0.5	1	△☆
	MFPAK	HSN278WK	NEW 30	30	—	—	0.3	1	1.5	1	1	SPL
MOP	HSB88WS	10	15	—	—	0.435	1	0.85	0	1	○☆	

## Schottky Barrier Diodes for High Speed Switching

Application	Package Code	Type No.	Elements S: Single D: Double	Ratings		Characteristics				Status	
				VRRM (V)	I <sub>O</sub> [IF] (A)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (mA) max	V <sub>R</sub> (V)		
High speed switching	MPAK	HRW0202A	D	20	0.2	0.40	0.1	0.05	20	○☆	
		HRW0202B	D	20	0.2	0.42	0.1	0.01	20	○☆	
		HRW0203A	S	30	0.2	0.50	0.2	0.05	30	○☆	
		HRW0203B	S	30	0.2	0.50	0.2	0.05	30	○☆	
		HRW0302A	S	20	0.3	0.40	0.3	0.1	20	○☆	
		HRW0502A	S	20	0.5	0.40	0.5	0.2	20	○☆	
		HRW0503A	S	30	0.5	0.55	0.5	0.05	30	○☆	
		HRW0702A	S	20	[0.7]	0.43	0.7	0.2	20	○☆	
		HRW0703A	S	30	[0.7]	0.50	0.7	0.1	30	○☆	
		URP	HRU0103A	S	30	0.1	0.44	0.1	0.05	30	○☆
	HRU0203A		S	30	0.2	0.50	0.2	0.05	30	○☆	
	HRU0302A		S	20	0.3	0.40	0.3	0.1	20	○☆	
	UFP	HRC0103A	S	30	0.1	0.44	0.1	0.05	30	○☆	
		HRC0203B	S	30	0.2	0.52	0.2	0.01	30	△☆	
		HRC0203C	S	30	0.2	0.45	0.2	0.03	10	△☆	
	CMPAK	HRB0103A	S	30	0.1	0.44	0.1	0.05	30	○☆	
		HRB0103B	D	30	0.1	0.44	0.1	0.05	30	○☆	
			HRB0502A	S	20	0.5	0.40	0.5	0.2	20	○☆

注) ○: 正在批量生产

SPL: 样品正在发货

△: 可以批量生产(有关交货日期请向负责销售的人员确认。)

※: 限定品种

★: 大量订货对象品种(订货单位为“500个的整数倍”)

☆: Taping 交货品种(订货单位为第13页所截个数的整数倍)有关 MPAK 的内部连接请参见第15页。

\*: 高可靠性二极管

## System Protection Diodes

Application	Package Code	Type No.	Ratings			Characteristics				Status
			V <sub>R</sub> [VRRM] (V)	I <sub>o</sub> (mA)	I <sub>FSM</sub> (A)	V <sub>F</sub> (V) max	I <sub>F</sub> (mA)	I <sub>R</sub> (μA) max	V <sub>R</sub> (V)	
System protection	MPAK	HSM107S	8	50	0.5	0.3	10	30	5	○★
		HSM126S	[20]	200	2	0.35	10	2	5	○★

## Surge Absorption Diodes

Application	Package Code	Type No.	Ratings		Characteristics			ESD (kV) min	Status		
			P <sub>d</sub> (mW)	V <sub>Z</sub> (V)	I <sub>Z</sub> (mA)	C (pF) max	V <sub>R</sub> (V)				
Surge absorption	UFP	HZC2.0	NEW 150	1.90~2.20	5	—	—	30	※		
		HZC2.2	NEW 150	2.10~2.40	5	—	—	30	※		
		HZC2.4	NEW 150	2.30~2.60	5	—	—	30	※		
		HZC2.7	NEW 150	2.50~2.90	5	—	—	30	※		
		HZC3.0	NEW 150	2.80~3.20	5	—	—	30	※		
		HZC3.3	NEW 150	3.10~3.50	5	—	—	30	※		
		HZC3.6	NEW 150	3.40~3.80	5	—	—	30	※		
		HZC3.9	NEW 150	3.70~4.10	5	—	—	30	※		
		HZC4.3	NEW 150	4.01~4.48	5	—	—	30	※		
		HZC4.7	NEW 150	4.42~4.90	5	—	—	30	※		
		HZC5.1	150	4.84~5.37	5	—	—	30	△★		
		HZC5.6	150	5.31~5.92	5	—	—	30	△★		
		HZC6.2	150	5.86~6.53	5	—	—	30	△★		
		HZC6.8	150	6.47~7.14	5	—	—	30	△★		
		HZC7.5	NEW 150	7.06~7.84	5	—	—	30	SPL		
		HZC8.2	150	7.76~8.64	5	—	—	30	△★		
		HZC9.1	NEW 150	8.56~9.55	5	—	—	30	SPL		
		HZC10	NEW 150	9.45~10.55	5	—	—	30	SPL		
		HZC11	NEW 150	10.44~11.56	5	—	—	30	SPL		
		HZC12	NEW 150	11.42~12.60	5	—	—	30	SPL		
		HZC13	NEW 150	12.47~13.96	5	—	—	30	SPL		
		HZC15	150	13.84~15.52	5	—	—	30	SPL		
		HZC16	150	15.37~17.09	5	—	—	30	△★		
		HZC18	NEW 150	16.94~19.03	5	—	—	30	※		
		HZC20	NEW 150	18.86~21.08	5	—	—	30	※		
		HZC22	NEW 150	20.88~23.17	5	—	—	30	※		
		HZC24	NEW 150	22.93~25.57	5	—	—	30	※		
		HZC27	NEW 150	25.10~28.90	2	—	—	30	※		
		HZC30	NEW 150	28.00~32.00	2	—	—	30	※		
		HZC33	NEW 150	31.00~35.00	2	—	—	25	※		
		HZC36	NEW 150	34.00~38.00	2	—	—	20	※		
			URP	HZU5.6Z*	200	5.31~5.92	5	8.5	0	8	○★
				HZU6.2Z*	200	5.9~6.5	5	8.5	0	—	○★
				HZU6.8Z*	200	6.47~7.0	5	25	0	20	○★
				HZU5.1G	200	4.84~5.37	5	—	—	30	○★
				HZU5.6G	200	5.31~5.92	5	—	—	30	○★
		HZU6.2G		200	5.86~6.53	5	—	—	30	○★	
		HZU6.8G		200	6.47~7.14	5	—	—	30	○★	
		HZU7.5G		200	7.06~7.84	5	—	—	30	○★	
		HZU8.2G		200	7.76~8.64	5	—	—	30	○★	
		HZU9.1G		200	8.56~9.55	5	—	—	30	○★	
		HZU10G	200	9.45~10.55	5	—	—	30	○★		
	MPAK	HZM3.3WA	200	3.10~3.50	5	—	—	30	○★		
		HZM6.2ZMWA*	200	5.9~6.5	5	8.5	0	13	△★		
		HZM6.8ZMWA*	200	6.47~7.0	5	25	0	20	○★		
		HZM6.8MWA	200	6.47~7.0	5	130	0	30	○★		
	MPAK-5	HZM27WA	200	25.1~28.9	2	(27)	0	30	○★		
		HZM4.3FA	200	4.01~4.48	5	150	0	30	○★		
		HZM5.6ZFA*	200	5.31~5.92	5	8.5	0	8	○★		
		HZM6.2ZMFA*	200	5.9~6.5	5	8.5	0	13	△★		
		HZM6.8ZMFA*	200	6.47~7.0	5	25	0	25	○★		
		HZM6.8MFA	200	6.47~7.0	5	130	0	30	○★		
		HZM7.5FA	200	7.06~7.84	5	125	0	30	○★		
	CMPAK	HZM27FA	200	25.1~28.9	2	(27)	0	30	○★		
		HZB6.8MWA	200	6.47~7.0	5	130	0	30	○★		
		CMPAK-5	HZB5.6MFA	200	5.31~5.92	5	(110)	0	30	△★	
	HZB6.8ZMFA*		200	6.47~7.0	5	25	0	25	○★		
	VSON-5	HZN6.8ZMFA	150	6.47~7.0	5	25	0	25	△★		

( )Typ 值 参考值

## Zener Diodes for Temperature Compensation

Application	Package Code	Type No.	Ratings		V <sub>Z</sub> (V)	Characteristics			Status	
			P <sub>d</sub> (mW) Value at Ta=75°C	T <sub>opr</sub> (°C)		γ <sub>Z</sub> (mV/°C) Typ	I <sub>Z</sub> (mA)	T <sub>opr</sub> (°C)		
Temperature compensation	DO-35	HZT33	200	-20~+75	31.0~35.0	5	1 (Absolute Value)	5	-20~+25~+75	○★

注) ○: 正在批量生产

SPL: 样品正在发货

△: 可以批量生产(有关交货日期请向负责销售的人员确认。)

※: 限定品种

★: 大量订货对象品种(订货单位为“500个的整数倍”)

☆: Taping 交货品种(订货单位为第13页所载个数的整数倍。)有关MPAK的内部连接请参见第15页。

\*: 低电容量



# Zener Diodes for Stabilized Power Supply

Application	Package Code	Type No.	Ratings	Characteristics		Status
			Pd (mW)	Vz (V)	Iz (mA)	
General	DO-35	HZ series	500	1.6~38.0	5~2	○★
		HZ(H) series	500	1.6~38.0	5~2	○★
	MHD	HZS series	400	1.6~38.0	5~2	○★
		HZS-N series	400	1.88~38.52	5	○★
	LLD	HZK series	500	1.9~38.0	5~2	△☆
	MPAK	HZM-N series	200	1.9~38.0	5~2	○☆
URP	HZU series	200	1.9~38.0	5~2	○☆	
Low noise	DO-35	HZ-L series	400	5.2~38.0	0.5	○★

注) (H) 为高可靠性产品。

Application	Package Code	Type No.	Ratings	Characteristics		Status
			Pd (mW)	Vz (V)	Iz (mA)	
Low noise	DO-35	HZ-LL series	250	1.6~5.3	0.5	○★
		HZS-L series	400	5.2~38.0	0.5	○★
	MHD	HZS-LL series	250	1.6~5.3	0.5	○★
		LLD	HZK-L series	400	5.2~38.0	0.5
	LLD	HZK-LL series	250	1.6~5.3	0.5	△☆
		URP	HZU-LL series	150	1.6~5.3	0.5
High power	DO-41	HZ-P series	1000	1.88~40.0	40-10	○★

Series	HZUxxLL	HZxxLL HZKxxLL HZSxxLL	HZSxx	HZxxL HZKxxL HZSxxL	HZxx HZxx(H) HZKxx	Spec.		
						Grade	Vz (V)	
							min	max
Classification	150	2	2	—	2	A	1.6	2.0
						B	1.9	2.3
						C	2.2	2.6
	3	3	3	—	3	A	2.5	2.9
						B	2.8	3.2
						C	3.1	3.5
	4	4	4	—	4	A	3.4	3.8
						B	3.7	4.1
						C	4.0	4.4
	5	5	5	—	5	A	4.3	4.7
						B	4.6	5.0
						C	4.9	5.3
	—	—	6	6	6	A	5.2	5.7
						B	5.5	6.0
						C	5.8	6.4
	—	—	7	7	7	A	6.3	6.9
						B	6.7	7.3
						C	7.2	7.9
	—	—	9	9	9	A	7.7	8.5
						B	8.3	9.1
C						8.9	9.7	
—	—	11	11	11	A	9.5	10.3	
					B	10.2	11.1	
					C	10.9	11.9	
—	—	12	12	12	A	11.6	12.7	
					B	12.4	13.4	
					C	13.2	14.3	
—	—	15	15	15	—	14.1	15.5	
					—	15.3	17.1	
					—	16.9	19.0	
—	—	18	18	18	—	18.8	21.1	
					—	20.9	23.3	
					—	22.9	25.5	
—	—	24	24	24	—	22.9	25.5	
					—	25.2	28.6	
					—	28.2	31.6	
—	—	27	27	27	—	31.2	34.6	
					—	34.2	38.0	
					—	36	36	

齐纳二极管有按齐纳电压区分的等级。  
详细请参照 Data Sheet。

HZMxxN HZUxx			HZSxxN			HZxxP		
200	Spec		400	Spec		1000	Spec	
	Vz (V)			Vz (V)			Vz (V)	
2.0	1.90	2.20	2.0	1.88	2.20	2.0	1.88	2.24
2.2	2.10	2.40	2.2	2.12	2.41	2.2	2.08	2.45
2.4	2.30	2.60	2.4	2.33	2.63	2.4	2.28	2.70
2.7	2.50	2.90	2.7	2.54	2.91	2.7	2.50	3.10
3.0	2.80	3.20	3.0	2.85	3.22	3.0	2.80	3.40
3.3	3.10	3.50	3.3	3.16	3.53	3.3	3.10	3.70
3.6	3.40	3.80	3.6	3.47	3.83	3.6	3.40	4.00
3.9	3.70	4.10	3.9	3.77	4.14	3.9	3.70	4.40
4.3	4.01	4.48	4.3	4.05	4.53	4.3	4.00	4.80
4.7	4.42	4.90	4.7	4.47	4.91	4.7	4.40	5.20
5.1	4.84	5.37	5.1	4.85	5.35	5.1	4.80	5.70
5.6	5.31	5.92	5.6	5.29	5.88	5.6	5.30	6.30
6.2	5.86	6.53	6.2	5.81	6.40	6.2	5.80	7.00
6.8	6.47	7.14	6.8	6.32	6.97	6.8	6.40	7.70
7.5	7.06	7.84	7.5	6.88	7.64	7.5	7.00	8.40
8.2	7.76	8.64	8.2	7.56	8.41	8.2	7.70	9.30
9.1	8.56	9.55	9.1	8.33	9.29	9.1	8.50	10.2
10	9.45	10.55	10	9.19	10.30	10	9.40	11.2
11	10.44	11.56	11	10.18	11.26	11	10.4	12.3
12	11.42	12.60	12	11.13	12.30	12	11.4	13.5
13	12.47	13.96	13	12.18	13.62	13	12.4	15.0
15	13.84	15.52	15	13.48	15.02	15	13.8	16.5
16	15.37	17.09	16	14.87	16.50	16	15.3	18.3
18	16.94	19.03	18	16.34	18.30	18	16.8	20.3
20	18.86	21.08	20	18.14	20.45	20	18.8	22.4
22	20.88	23.17	22	20.23	22.61	22	20.8	24.5
24	22.93	25.57	24	22.26	24.81	24	22.8	27.6
27	25.10	28.90	27	24.26	27.64	27	25.1	30.8
30	28.00	32.00	30	26.99	30.51	30	28.0	34.0
33	31.00	35.00	33	29.68	33.11	33	31.0	37.0
36	34.00	38.00	36	32.14	35.77	36	34.0	40.0
			39	34.68	38.52			

## CROSS REFERENCE

### ■ Switching diodes

Package Code	Maker	TOSHIBA	NEC	MATSUSHITA	ROHM	PHILIPS	HITACHI
DO-35		1S1555, 1S1588 1SS104	1S953	MA150	1S2472, 1S2473 1S2787		1S2076
		1S1553, 1S1554		MA161	1S2471, 1SS41		1S2076A
					1SS144		1SS81
					1SS143		1SS82
		1S1586, 1S1587	1S954, 1S955	MA162, MA170, MA171	1SS92, 1SS93 1SS94		1SS83
MHD		1SS176	1SS202		1SS132, 1SS133 1SS134, 1SS210 1SS211, 1SS253 1SS254		1SS270, 1SS119
		1SS178, 1SS177	1SS202(1)	MA165, MA166, MA167	1SS130, 1SS131 1SS209, 1SS252		1SS270A, 1SS120
LLD		DLS1585, DLS1586		MA221	RLS71, RSL72 RLS139, RLS140 RLS73, RLS92 RLS141 RLS593, RLS94		HSK120
				MA222			
				MA223	RLS245, ISS376		HSK83
MPAK		1SS181	1S2835, 1S2836	MA3X152D MA151WA MA152WA	DAP202K	PMBD2836	HSM2836C
		1SS336					
		1SS184	1S2837, 1S2838	MA3X152E MA151WK MA152WK	DAN202K	PMBD2838	HSM2838C
		1SS337					
		1SS250		MA3X199 MA3X158			HSM83
		1SS226	1SS123	MA157, MA157A MA3X153 MA3X153A MA3X157A	DA323K, DA204K DA223K, DA228K DAN217		HSM123
		1SS379		MA3X198	DA204K DA228K		HSM124S
		1SS193, 1SS307	1SS220, 1SS221	MA151K, MA152K MA3X152K	DAN212K		HSM221C
CMPAK		ISS187	1SS222, 1SS223	MA151A, MA152A MA3X152A	DA116		HSM223C
		1SS370, 1SS397					HSB83
		1SS300		MA3J142D	DAP202U	IPS300	HSB2836
		1SS361, 1SS301		MA3J142E	DAP222, DAN202U	IPS301	HSB2838
		1SS302		MA3J147	DAN217U	IPS302	HSB123
CMPAK-4 URP				MA3J143 MA3J143A	DA228U		HSB124S
		1SS382					HSB83YP
URP		1SS403		MA2Z001			HSU83
		1SS352		MA2J111/112/113/11 6	1SS353, 1SS355		HSU119
UFP		1SS387		MA2S111 MA2S132K	1SS400, 1SS380		HSC119

### ■ Zener diodes

Classification	Pd(mW)	Package Code	TOSHIBA	NEC	MATSUSHITA	ROHM	MOTOROLA	HITACHI
General	150~200	MPAK	02CZ series	RD-M series	MAZ3000/9000 series		MMA3000	HZM-N series
		URP	02DZ series	RD-S series	MAZ8000 series	UDZ series		HZU series
	400	MHD	04AZ series					HZS series
				RD-ES series		MTZJ series		HZS-N series
		LLD		RD-L series	MAZ6000 series	RLZ series		HZK series
	800	DO-35	05AZ series	RD-E series	MAZ1000 series			HZ series
900	DO-41	1AZ series	RD-F series	MAZ2000 series		MZP series	HZ-P series	
Low noise	400	LRP	U1ZB series	RD-FM series	MAZ5000 series		1SMB59	
		LLD		RD-K series				HZK-L series
		MHD	04BZ series					HZS-L series
Low voltage Low noise	250			RD-JS series				HZ-L series
		DO-35						HZS-LL series
		MHD	04DZ series	RD-HS series				HZ-LL series
	150	URP					HZU-LL series	

### ■ Surge absorption Zener diodes

Classification	Package Code	TOSHIBA	NEC	MATSUSHITA	ROHM	HITACHI
ESD	MPAK		NNCD-E/F/MF	MAZC062D		HZM-WA/ZWA
	MPAK-5	DF5A-F/LF	NNCD-G/LG/MG	MAZL000H	FTZ-E	HZM-FA/ZFA
	CMPAK	DF3A-Fu/LFu			UMZ-N	HZB-MWA
	CMPAK5	DF5A-Fu/LFu	NNCD-LH		UMZ-EN	HZB-ZMFA
	URP		NNCD-D			HZU-G/Z
	UFP		MNCD-C		MAZS series	

# CROSS REFERENCE

## ■ Diodes for high frequency

Application	Package Code	TOSHIBA	MATSUSHITA	NEC	SONY	Others	HITACHI		
VCO	URP	1SV270					HVU350B		
			MA377				HVU355B		
			MA304				HVU359		
		1SV277					HVU369B		
						PHILIPS	BB156	HVU383B	
	UFP	1SV281				1T413		HVC350B	
		1SV280/285/239	MA2S376					HVC355B	
		1SV293/279/281	MA2S331/MA332					HVC358B	
			MA2S304					HVC359	
						1T363A		HVC362	
			1SV313/314					HVC366	
				MA2SV01				HVC368B	
			1SV285/329/277					HVC369B	
	SFP		MA2SV07					HVC380B	
			MA2SV04					HVC381B	
		MA2SV01				PHILIPS	BB156	HVC383B	
Antenna switching	URP	1SV135	MA2SV01				HVD372B		
		1SV121					HVU131		
	1SV271/307						HVU132		
UFP	1SV308					PHILIPS	BAR63-03W	HVU134	
						HP	HSMF3892-L31	HVC132	
						SIEMENS	BAR63-03W	HVC134	
							HVC135		
							HVC136		
UHF/VHF ET	URP	1SV214/1SV254	MA360/372/369	1SV220/221	1T362	ROHM ITT SIEMENS	1SV223 BB721S/723S BB353	HVU202A	
		1SV214/215/216	MA360/342	1SV220/219	1T362A	ROHM ITT	1SV223 BB723S	HVU202B	
	UFP	1SV278	MA2S372		1T402			HVC202A	
		1SV286	MA2S367	1SV163	1T402			HVC202B	
VHF Wide band CATV ET	URP	1SV215/232	MA366	1SV219		ITT PHILIPS	BB729S BB133	HVU200A	
		1SV238/1SV269	MA366C/355/357		1T364/399	ITT	BB730S	HVU306A	
			MA357		1T368/368A			HVU306B	
		1SV217/221	MA371/356	1SV218	1T360/405/378			HVU307	
		1SV231/288/299/300	(MA337/365)/374		1T369/397	ITT	BB731S	HVU300A	
		1SV302			1T369			HVU300B	
	UFP	1SV290/301 1SV303				1T363A	SIEMENS	BB639	HVU363A
						1T363/364			HVU363B
						1T406/407			HVC300A
					1T406/407			HVC300B	
					1T403/363A	ITT	BB730S	HVC363A	
					1T403			HVC363B	
	1SV283	MA2S357		1T404/405/408			HVC306A		
	1SV282			1T404/404A	ITT	BB730S	HVC306B		
	1SV217/221	MA371/356	1SV218	1T360/405/378			HVC307		
UHF/SHF ET	URP	1SV258/287/291	MA368/370		1T379/365	ITT PHILIPS SIEMENS	BB701S BB813/833 BB640	HVU316	
	UFP				1T410	PHILIPS	BB813/833	HVC316	
					1T417		(HVC317B)		
FM ET	MPAK	1SV225/228				ITT	BB404A-E	HVM27WK	
						SANYO	SVC212/252/217		
AM ET	SPAK	1SV102 1SV149				TOKO	KV1440	HVM16	
						PHILIPS	BB804		
	SRP					SANYO	SVC203/253/208		
						ITT	BB510	HVR100	
						PHILIPS	BB112		
UHF/VHF AFC Band SW	URP	1SV230/224				ITT	BB723S		
			MA57	1SS153		PHILIPS	BAT18		
MPAK	1SS268	MA57WK	1SS329/330			ROHM	DAN235K		
	1SS269	MA57WA	1SS327/328			ROHM	DAP236K	HSM2694	
	1SS381	MA2S077				ROHM	1SS390	HSC277	
URP	1SS314	MA77	1SS316/317			ROHM	1SS356	HSU277	
Mixer	SFP	JDH2S01T				ROHM	RB520G-30	HSD226	
						ROHM	RB876G	HSD276A	
	UFP	1SS389, 1SS388 JDH2S01T	MA2S728				ROHM	RB751S-40	HSC226
									HSC276A
	URP	1SS315	MA2S728				ROHM	RB751S-40	HSC278
			MA2J728				ROHM	RB751V-40	HSU227
	MPAK						HP	HSMS-2812/2822	HSM88AS
							HP	HSMS2813/2823	HSM88WA
							HP	HSMS2814/2824	HSM88WK
							ROHM	RB706D-40	HSM198S
									HSM276AS
							HP	HSMS-2822	HSM276AS
	CMPAK						HP	HSMS281C/282C	HSB226S
							HP	HSMS281F/282F	HSB226WK
							ROHM	RB715F	
							SANYO	SB007-W03C	
							HP	HSMS285C	HSB276S
							HP	HSMS285C	HSB276AS
	MA3J742					HP	HSMS281C/282C	HSB88AS	
	MA3J741E MA3J745E					HP	HSMS281E/282E	HSB88WA	
	1SS271	MA3X704E/717E MA3X716/715				ROHM	RB706D-40	HSM198S	
	1SS295					HP	HSMS-2822	HSM276AS	
CMPAK-4						ROHM	RB480K, RB481K	HSB0104YP	
						SIEMENS	BAT62-07W	HSB226YP	
						HP	HSMS281K/282K		
						HP	HSM282K	HSB88YP	
						SIEMENS	BAT62-07W		
Attenuator	MPAK	1SV128	MA551			SANYO	1SV233/298	HVM14	
		1SV172	MA555			SANYO	1SV234/316	HVM14S	
	CMPAK					ROHM	RN719D	HVM187S	
						SANYO	1SV315	HVB14S	

注) 特性及外观可能有些不同, 有关详情请查阅该产品的 Data Sheet.

## CROSS REFERENCE

### ■ Schottky barrier diodes for switching power supply

Package Code	Maker	FUJI	SANKEN	SHINDENGEN	TOSHIBA	GIC	IRC	MATSUSHITA	SANYO	ROHM	HITACHI	
MPAK					1SS377				SB02-03Q	RB425D	HRW0202A	
					1SS392			MA740 MA3X786E MA3X721E	SB02-03C		HRW0202B	
								MA3X721/ 787/788	SB02-03S		HRW0203A	
								MA3XD17			HRW0302A	
					1SS344			MA3X708 MA3X748	SB05-05CP	RB411D RB401	HRW0502A	
								MA3X720/703 MAX789	SB05-03C/Q SB05-05CP/P	RB400D RB411D	HRW0503A	
								MA3X701 MA10703	SB007-03C/P/N SB007-015C		HRW0703A HRW0702A	
CMPAK					1SS349			MA3Z792		RB450F RB451F	HRB0103A	
					1SS395							
					1SS322							
					1SS372			MA3Z793			HRB0103B	
CMPAK-4 UFP					1SS401			MA3J702/ 700/744		RB461F	HRB0502A	
										RB501V-40	(HSB0104YP)	
URP					1SS388			MA2S784			HRC0103A	
								MA2SD25 MA2SD19		RB520S-30 RB521S-30	HRC0203B	
					1SS389			MA2SD19 MA2SD25		RB521S-30 RB501V-40	HRC0203C	
DO-41					1SS367/373 1SS357			MA784 MA2Z714 MA2Z784		RB501H RB500V-40 RB501V-40	HRU0103A	
								MA2J704			HRU0203A	
					1SS404			MA2J729 MA2Z748			HRU0302A	
DO-41		EK09 AK09						11EQS09 11EQ09 11DQ09			HRP32 ※	
	ERA81-004	EK04 AK04	DINS4	1GWJ42 1GWJ43	SB140			11EQS04 11EQ04 11DQ04			HRP22 ※	
LRP	SE014		D1FS4	U1FWJ49 U1FWJ44N				EC10QS04 E10QS04	MA735 MA736	SB11-04HP SB10-05P/CP	RB160L-40	HRF22 ※
								EC10QS09 E10QS09		SB11-04HP		HRF32 ※

注) 1. 特性及外观可能有些不同, 有关详情请查阅该产品的 Data Sheet.

2. ※ 曾提议于 2001 年度停产, 准备提议于 2002 年度停产.

## PACKAGE CROSS REFERENCE

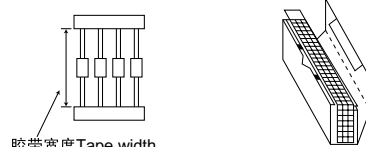
HITACHI	MATSUSHITA	NEC	ROHM	TOSHIBA	SONY	PHILIPS	SIEMENS	EIAJ	JEDEC
DO-41	DO-41	DO-41	GSR	DO-41		SOD66(DO-41)		SC-47	DO-41
DO-41Mod			MSR	DD-41SS		SOD68			
DO-35	DO-35	DO-35	GSD	DO-35		SOD27(DO-35)		SC-48	DO-35
MHD	DO-34	DO-34	MSD	DO-34		DO-34			DO-34
TO-220FM ※	TO-220F	MP-45F	TO-220	TO-220FL					
TO-220AB ※	TO-220D	MP-45		TO-220AB		TO220AB		SC-46	TO-220AB
LLD	Leadless	Leadless	LLDS(LL-34)	Leadless		SOD80C			
MPAK	Mini 3P	3Pin Mini Mold	SSD3/SMD3	S-MINI(SC-59)		SC59	SOT-23	SOT-23/SC-59A	TO-236Mod
MPAK-5	Mini 5P		SMD5	SMV				SC-74A	
CMPAK	S Mini 3P	3Pin Small Mini Mold	UMD3	USM		SOT323		SOT-323/SC-70	
CMPAK-4	S Mini 4P		UMD4	USQ				SC-82	
SRP	Mini 2P			S-FLAT	Mini mold(M-205)	SOD123	SOD-123		
URP	S Mini 2P	2Pin Small Mini Mold	UMD2(SOD-323)	USC	SMVC(M-235)	SOD323	SOD-323		
UFP(1608)	SS Mini 2P	2Pin Ultra Small Mini Mold	EMD2	ESC	SSVC(M-290)	SOD523/SC79		SC-79	
LRP ※	New Mini Power 2P	2Pin Power Mini Mold	PMDS(SMA)	I-FLAT		SOD106A			

注) ※曾提议于 2001 年度停产, 准备提议于 2002 年度停产.

## STANDARD TAPING SPECIFICATION

详细请参照 Data Sheet.

### ■ 轴向 Taping 包装 (折叠包装) Axial Taping AMMO Pack (AMMO BOX)

Symbol	Package Code	Taping Dimension	Packing Unit (pcs)	Appearance
TA*	DO-35 MHD	52mm	5000	 <p style="text-align: center;">胶带宽度 Tape width</p>
TD	DO-35 MHD	26mm	2500	
TE*			5000	
TJ	MHD,UMD		5000	
TK*	DO-41	52mm	2500	
TN*	DO-41	26mm	2500	

\*这是推荐的 Taping 包装规格.

# STANDARD TAPING SPECIFICATION

## ■ Emboss Taping Reel Pack

Package Code	Packing Unit	Name	Packing Configurations
URP	3,000	型号+TL/TR	压花胶带 Taping 包装 Emboss TAPING REEL PACK (根据 EIAJ 规格的 RC-1009B) (conforming to EIAJ standard RC-1009B) 8mm 压花胶带 8mm emboss tape 胶带 (相当于 EIAJ 的 TE84F 型) tape (equivalent to EIAJ type TE84F)
		Type No.+TL/TR	
SRP	3,000	型号+TL/TR	
		Type No.+TL/TR	
MPAK CMPAK CMPAK-4	3,000	型号+TL/TR	
		Type No.+TL/TR	
MPAK-5 CMPAK-5 VSON-5	3,000	型号+TL/TR	
		Type No.+TL/TR	
MFPK	2mm 间距	型号+TL/TR	
	9,000	Type No.+TL/TR	
LLD	2,500	型号+TL/TR	
		Type No.+TL/TR	
UFP	4mm 间距	型号+TR	
	4,000	Type No.+TR	
	2mm 间距	型号+KR	
	8,000	Type No.+KR	
SFP	2mm 间距	型号+KR	
	8,000	Type No.+KR	
EFP	2mm 间距	型号+KR	
	10,000	Type No.+KR	

注) TR 是推荐的 Taping 包装规格。

URP 外观产品的 Taping, 根据 1 卷的数量、分组等, 附有下列 Taping 标志:

Taping 代码 Taping code	TRF	TRU	TRV
Taping 方向 Taping direction	TR	TR	TR
1 卷内的最大种类数 Maximum category in 1 reel	—	4	
1 卷内的数量 Quantity in 1 reel	3000 pcs		
分组 Grouping	—	20 pcs 以上 20 pcs or more	
分组的尾端 End of group	—	4 个空格 4 spaces	1 个空格不反射胶带 Non-reflection tape on 1 space
备注 Note	—	C.C 方式* C.C system*	

\* 变容二极管的连续 Taping 方式。

\*\* 需要 TL 型时, 请先和本公司的营销负责人员商谈。

UFP/SFP 外观产品的 Taping, 根据 1 卷内的数量、分组等, 附有下列 Taping 标志: (SFP 外观仅限于 KR※规格)

Taping 代码 Taping code	TRF	TRU	TRV	KRF	KRU	KRV
Taping 方向 Taping direction	TR			KR		
1 卷内的最大种类数 Maximum category in 1 reel	—	5 max		—	10 max	
1 卷内的数量 Quantity in 1 reel	4000 pcs			8000 pcs		
分组 Grouping	—	20 pcs 以上 20 pcs or more		—	20 pcs 以上 20 pcs or more	
分组的尾端 End of group	—	9 个空格 9 spaces	1 个空格+1 个空格不反射 胶带+1 个空格 1space+ Non-reflection tape on 1space+1space	—	4 个空格 4 spaces	1 个空格不反射胶带 Non-reflection tape on 1 space
备注 Note	—	C.C 方式* C.C system*		—	C.C 方式* C.C system*	

\* 变容二极管的连续 Taping 方式。

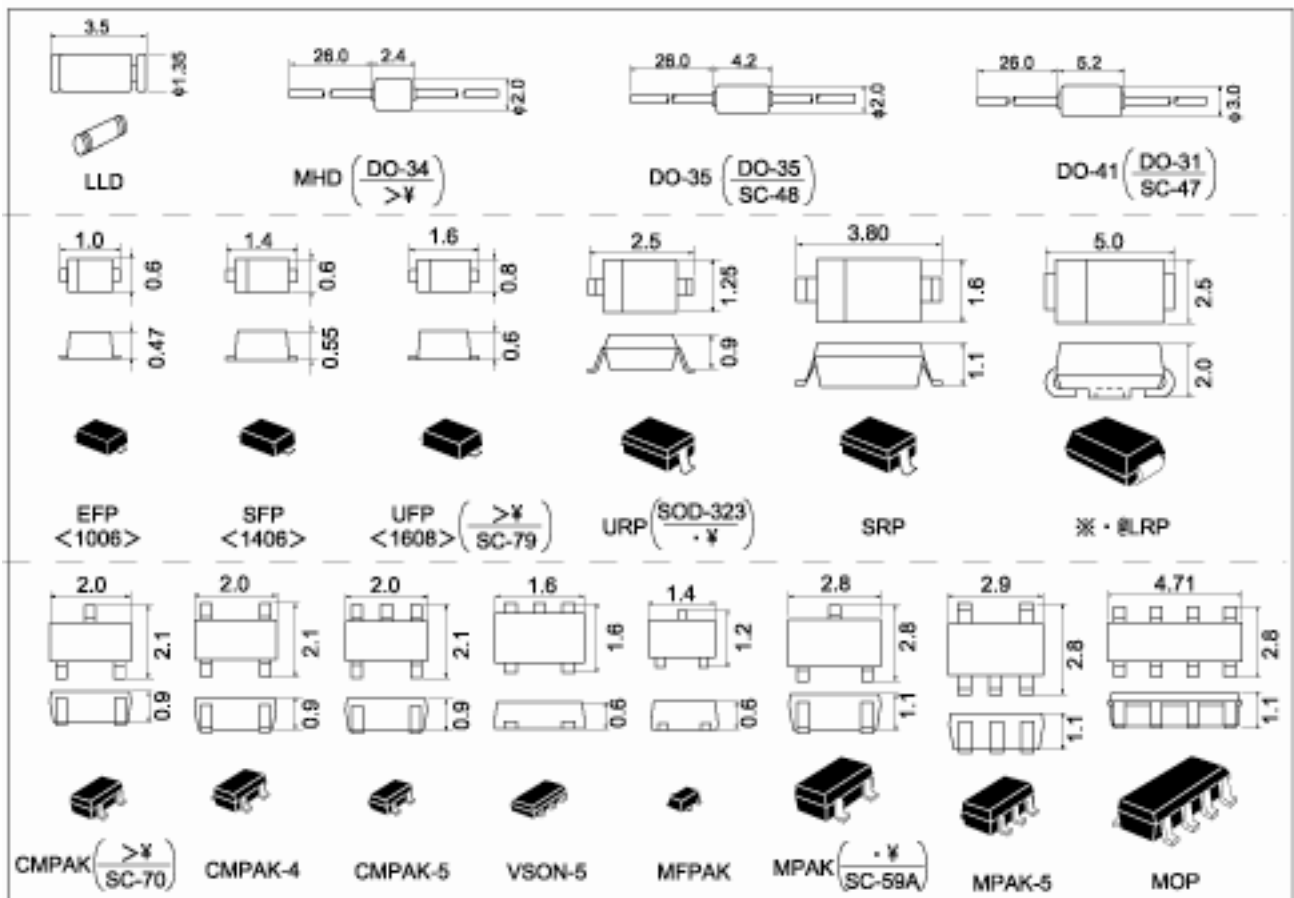
# STANDARD TAPING SPECIFICATION

## ■ Taping Pulling Direction

Package Code	Taping Code	Pulling Direction
URP SRP LLD MOP	TR (Taping to Right)	TR Pulling direction → 
UFP	TR (Taping to Right)	TR Pulling direction → 
	KR	KR Pulling direction → 
SFP EFP	KR	KR Pulling direction → 
MPAK CMPAK CMPAK-4 MPAK-5 CMPAK-5 VSON-5 MFAK	TR (Taping to Right)	TR Pulling direction → 

# PACKAGE

日立代码 (JEDEC代码)  
(EIAJ代码)



注) 1. 上記外观图并非原寸大。

2. ※曾提议于 2001 年度停产, 准备提议于 2002 年度停产。

# SURFACE MOUNT TYPE MARKING

## ■MPAK/MFPAK Marking (Except Zenner Diode Series)

Type No.	Marking	Pin Connection
HRW0202A	S17	图 5 CC
HRW0202B	S18	图 5 CC
HRW0203A	S5	图 4 SI(1)
HRW0203B	S21	图 7 SI(2)
HRW0302A	S11	图 4 SI(1)
HRW0502A	S10	图 4 SI(1)
HRW0503A	S6	图 4 SI(1)
HRW0702A	S15	图 4 SI(1)
HRW0703A	S8	图 4 SI(1)
HSM83	F7	图 4 SI(1)
HSM88AS	C1	图 2 SE
HSM88ASR	C3	图 1 SER
HSM88WA	C7	图 6 AC
HSM88WK	C4	图 5 CC
HSM107S	C5	图 2 SE
HSM123	A9	图 2 SE
HSM124S	A1	图 2 SE
HSM126S	S14	图 2 SE
HSM198S	C6	图 2 SE
HSM221C	A2	图 4 SI(1)
HSM223C	A8	图 3 SIR(1)

Type No.	Marking	Pin Connection
HSM276AS	S19	图 2 SE
HSM276S	C2	图 2 SE
HSM276ASR	S20	图 1 SER
HSM276SR	C9	图 1 SER
HSM2694	B3	图 6 AC
HSM2836C	A4	图 6 AC
HSM2838C	A6	图 5 CC
HVM14	H5	图 4 SI(1)
HVM14S	H6	图 2 SE
HVM14SR	H7	图 1 SER
HVM16	T3	图 5 CC
HVM27WK	T5	图 5 CC
HVM28BWK	T14	图 5 CC
HVM187S	H3	图 2 SE
HVM187WK	H1	图 5 CC
HVM189S	H9	图 2 SE
HZM6.2ZMWA	62N	图 6 AC
HZM6.8MWA	68M	图 6 AC
HZM6.8ZMWA	68N	图 6 AC
HZM27WA	27A	图 6 AC
HZM3.3WA	33A	图 6 AC
HSN278WK	SI-	图 5 CC

Pin Connection	Marking Example
图 1 SER	<p>标志表示</p>
图 2 SE	
图 3 SIR(1)	
图 4 SI(1)	
图 5 CC	
图 6 AC	
图 7 SI(2)	
图 8 SIR(2)	

## ■CMPAK Marking

Type No.	Marking	Pin Connection
HVB14S	H6	图 2 SE
HVB27WK	T5	图 5 CC
HVB387BWK	V5	图 5 CC
HRB0103A	E1	图 4 SI(1)
HRB0103B	E2	图 2 SE
HRB0502A	E3	图 4 SI(1)
HSB123	A9	图 2 SE

Type No.	Marking	Pin Connection
HSB124S	A1	图 2 SE
HSB276AS	E8	图 2 SE
HSB276S	C2	图 2 SE
HSB83	F7	图 4 SI(1)
HSB88AS	C1	图 2 SE
HSB88WA	C7	图 6 AC
HSB226S	E7	图 2 SE

Type No.	Marking	Pin Connection
HSB226WK	E6	图 5 CC
HSB278S	S2	图 2 SE
HSB88WK	C4	图 5 CC
HSB2836	A4	图 6 AC
HSB2838	A6	图 5 CC
HZB6.8MWA	68M	图 6 AC

内部连接请参见MPAK。

## ■CMPAK-4 Marking

Type No.	Marking	Pin Connection
HSB0104YP	E4	参见图
HSB226YP	E5	参见图
HSB83YP	F7	参见图
HSB88YP	C1	参见图

Type No.	Marking	Pin Connection
HSB276AYP	E9	参见图
HVB187YP	P1	参见图
HVB350BYP	V1	参见图

Pin Connection	Marking Example

## ■CMPAK-5 Marking

Type No.	Marking	Pin Connection
HZB6.8ZMFA	68N	参见图
HZB5.6MFA	56M	参见图

## ■MPAK-5/VSON-5 Marking

Type No.	Marking	Pin Connection
HZM4.3FA	43A	参见图
HZM5.6ZFA	56Z	参见图
HZM6.2ZMFA	62N	参见图
HZM6.8MFA	68M	参见图

Type No.	Marking	Pin Connection
HZM6.8ZMFA	68N	参见图
HZM7.5FA	75A	参见图
HZM27FA	27A	参见图
HZN6.8ZMFA	68*	参见图

Pin Connection	Marking Example

## ■URP/UFP/SFP/EPF Marking

Type No.	Marking	Cathode Marking Color
HRC0203B	S2	Laser mark
HRC0203C	S8	Laser mark
HRU0103A/HRC0103A	S1	Laser mark
HRU0203A	Y	Laser mark
HRU0302A	Z	Laser mark
HSC88	S3	Laser mark
HSC226	S4	Laser mark
HSC278	S6	Laser mark
HSD88	S3	Laser mark
HSD276A	S2	Laser mark
HSD278	S1	Laser mark
HSU83	T	Laser mark
HSU88	9	Laser mark
HSU119/HSC119	H1	Laser mark
HSU227	S3	Laser mark
HSU276/HSC276	3/C2	Laser mark
HSU276A	S5	Laser mark
HSU277/HSC277	3/No mark	Laser mark
HVC134	P4	Laser mark
HVC135	P5	Laser mark
HVC136	P6	Laser mark
HVC142	T2	Laser mark
HVC145/HVD145/HVU145	T5	Laser mark
HVC308A	V	Laser mark
HVC316	N	Laser mark
HVC317B	A5	Laser mark
HVC355B/HVU355B	B1	Laser mark
HVC358B	B2	Laser mark
HVC362	V2	Laser mark
HVC365	V6	Laser mark

Type No.	Marking	Cathode Marking Color
HVC368B	B4	Laser mark
HVC369B	B3	Laser mark
HVC372B	B5	Laser mark
HVC374B	B6	Laser mark
HVC375B	B8	Laser mark
HVC376B	B9	Laser mark
HVC379B	F1	Laser mark
HVC380B	F2	Laser mark
HVC381B	F3	Laser mark
HVC383B	F4	Laser mark
HVC385B	F6	Laser mark
HVC386B	F7	Laser mark
HVC417C	A8	Laser mark
HVD131	1	Laser mark
HVD132	2	Laser mark
HVD133	3	Laser mark
HVD135	5	Laser mark
HVD136	6	Laser mark
HVD138	8	Laser mark
HVD141	T1	Laser mark
HVD142	T2	Laser mark
HVD144	T4	Laser mark
HVD350B	A	Laser mark
HVD355B	B	Laser mark
HVD358B	C	Laser mark
HVD359	G	Laser mark
HVD365	H	Laser mark
HVD368B	E	Laser mark
HVD369B	D	Laser mark
HVD372B	F	Laser mark
HVD380B	J	Laser mark

Type No.	Marking	Cathode Marking Color
HVD381B	K	Laser mark
HVD385B	M	Laser mark
HVD396C	U	Laser mark
HVL142	2	Laser mark
HVL144	3	Laser mark
HVL385B	6	Laser mark
HVL396C	7	Laser mark
HVU17	E	Laser mark
HVU131/HVC131	P1	Laser mark
HVU132/HVC132	P2	Laser mark
HVU133/HVC133	P3	Laser mark
HVU134	P4	Laser mark
HVU187	D	Laser mark
HVU200A/HVC200A	2	Laser mark
HVU202A/HVC202A	Q	Laser mark
HVU202B/HVC202B	A0	Laser mark
HVU300A/HVC300A	0	Laser mark
HVU300B/HVC300B	A1	Laser mark
HVU306A/HVC306A	3	Laser mark
HVU306B/HVC306B	A2	Laser mark
HVU307	7	Laser mark
HVU316	N	Laser mark
HVU350B/HVC350B	B0	Laser mark
HVU359/HVC359	S	Laser mark
HVU363A/HVC363A	V3	Laser mark
HVU363B/HVC363B	A3	Laser mark
HVU383B	F4	Laser mark
HZU5.1G	51	Laser mark
HZU5.6G	56	Laser mark
HZU5.6Z	56Z	Laser mark
HZU6.2G	62	Laser mark

Type No.	Marking	Cathode Marking Color
HZU6.2Z	62Z	Laser mark
HZU6.8G	68	Laser mark
HZU6.8Z	68Z	Laser mark
HZU7.5G	75	Laser mark
HZU8.2G	82	Laser mark
HZU9.1G	91	Laser mark
HZU10G	10	Laser mark
HSD226	S4	Laser mark
HVC396C	F9	Laser mark
HVL138	1	Laser mark
HVL145	4	Laser mark
HVL358B	8	Laser mark
HVU417C	A8	Laser mark
HVL397C	A	Laser mark

Marking Example
<p>URP/UFP/SFP</p> <p>阴极标志</p> <p>标志表示</p>

注) 有部分产品用墨水标记, 有关详情请查阅该产品的 Data Sheet。

# SURFACE MOUNT TYPE MARKING

## ■ HZM-N Series Marking

Type No.	Grade	Marking
HZM2.0N	B	20-
HZM2.2N	B	22-
HZM2.4N	B	24-
HZM2.7N	B1	271
	B2	272
HZM3.0N	B1	301
	B2	302
HZM3.3N	B1	331
	B2	332
HZM3.6N	B1	361
	B2	362
HZM3.9N	B1	391
	B2	392
HZM4.3N	B1	431
	B2	432
	B3	433

Type No.	Grade	Marking
HZM4.7N	B1	471
	B2	472
	B3	473
HZM5.1N	B1	511
	B2	512
	B3	513
HZM5.6N	B1	561
	B2	562
	B3	563
HZM6.2N	B1	621
	B2	622
	B3	623
HZM6.8N	B1	681
	B2	682
	B3	683

Type No.	Grade	Marking
HZM7.5N	B1	751
	B2	752
	B3	753
HZM8.2N	B1	821
	B2	822
	B3	823
HZM9.1N	B1	911
	B2	912
	B3	913
HZM10N	B1	101
	B2	102
	B3	103
HZM11N	B1	111
	B2	112
	B3	113

Type No.	Grade	Marking
HZM12N	B1	121
	B2	122
	B3	123
HZM13N	B1	131
	B2	132
	B3	133
HZM15N	B1	151
	B2	152
	B3	153
HZM16N	B1	161
	B2	162
	B3	163
HZM18N	B1	181
	B2	182
	B3	183

Type No.	Grade	Marking
HZM20N	B1	201
	B2	202
	B3	203
HZM22N	B1	221
	B2	222
	B3	223
HZM24N	B1	241
	B2	242
	B3	243
HZM27N	B	27-
HZM30N	B	30-
HZM33N	B	33-
HZM36N	B	36-

## ■ HZU/HZU-LL Series Marking

Type No.	Grade	Marking		
		A	B	C
HZU2.0	B	2	C	0
HZU2.2	B	2	C	2
HZU2.4	B	2	C	4
HZU2.7	B1	2	U	7
	B2	2	C	7
HZU3.0	B1	3	U	0
	B2	3	C	0
HZU3.3	B1	3	U	3
	B2	3	C	3
HZU3.6	B1	3	U	6
	B2	3	C	6
HZU3.9	B1	3	U	9
	B2	3	C	9
HZU4.3	B1	4	U	3
	B2	4	C	3
	B3	4	L	3
HZU4.7	B1	4	U	7
	B2	4	C	7
	B3	4	L	7

Type No.	Grade	Marking		
		A	B	C
HZU5.1	B1	5	U	1
	B2	5	C	1
	B3	5	L	1
HZU5.6	B1	5	U	6
	B2	5	C	6
	B3	5	L	6
HZU6.2	B1	6	U	2
	B2	6	C	2
	B3	6	L	2
HZU6.8	B1	6	U	8
	B2	6	C	8
	B3	6	L	8
HZU7.5	B1	7	U	5
	B2	7	C	5
	B3	7	L	5
HZU8.2	B1	8	U	2
	B2	8	C	2
	B3	8	L	2

Type No.	Grade	Marking		
		A	B	C
HZU9.1	B1	9	U	1
	B2	9	C	1
	B3	9	L	1
HZU10	B1	1	0	U
	B2	1	0	C
	B3	1	0	L
HZU11	B1	1	1	U
	B2	1	1	C
	B3	1	1	L
HZU12	B1	1	2	U
	B2	1	2	C
	B3	1	2	L
HZU13	B1	1	3	U
	B2	1	3	C
	B3	1	3	L
HZU15	B1	1	5	U
	B2	1	5	C
	B3	1	5	L

Type No.	Grade	Marking		
		A	B	C
HZU16	B1	1	6	U
	B2	1	6	C
	B3	1	6	L
HZU18	B1	1	8	U
	B2	1	8	C
	B3	1	8	L
HZU20	B1	2	0	U
	B2	2	0	C
	B3	2	0	L
HZU22	B1	2	2	U
	B2	2	2	C
	B3	2	2	L
HZU24	B1	2	4	U
	B2	2	4	C
	B3	2	4	L
HZU27	B	2	7	C
HZU30	B	3	0	C
HZU33	B	3	3	C
HZU36	B	3	6	C

Type No.	Grade	Marking
HZU2LL	A	2A
	B	2B
	C	2C
HZU3LL	A	3A
	B	3B
	C	3C
HZU4LL	A	4A
	B	4B
	C	4C
HZU5LL	A	5A
	B	5B
	C	5C



## ■ HZC Series Marking

Type No.	Marking
HZC2.0	20
HZC2.2	22
HZC2.4	24
HZC2.7	27
HZC3.0	30
HZC3.3	33
HZC3.6	36
HZC3.9	39
HZC4.3	43
HZC4.7	47
HZC5.1	51

Type No.	Marking
HZC5.6	56
HZC6.2	62
HZC6.8	68
HZC7.5	75
HZC8.2	82
HZC9.1	91
HZC10	10 ■
HZC11	11 ■
HZC12	12 ■
HZC13	13 ■

Type No.	Marking
HZC15	15 ■
HZC16	16 ■
HZC18	18 ■
HZC20	20 ■
HZC22	22 ■
HZC24	24 ■
HZC27	27 ■
HZC30	30 ■
HZC33	33 ■
HZC36	36 ■