

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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S320J thru S320QR

Silicon Standard Recovery Diode

 $V_{RRM} = 600 \text{ V} - 1200 \text{ V}$ $I_F = 320 \text{ A}$

Features

- High Surge Capability
- Types up to 1200 V V_{RRM}

DO-9 Package



Maximum ratings, at T_i = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	S320J (R)	S320K (R)	S320M (R)	S320Q (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	1200	V
RMS reverse voltage	V_{RMS}		420	566	707	848	V
DC blocking voltage	V_{DC}		600	800	1000	1200	V
Continuous forward current	I _F	T _C ≤ 100 °C	320	320	320	320	Α
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	$T_C = 25 ^{\circ}\text{C}, t_p = 8.3 \text{ms}$	4700	4700	4700	4700	Α
Operating temperature	T _j		-60 to 180	-60 to 180	-60 to 180	-60 to 180	°C
Storage temperature	T _{stg}		-60 to 200	-60 to 200	-60 to 200	-60 to 200	°C

Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	S320J (R)	S320K (R)	S320M (R)	S320Q (R)	Unit
Diode forward voltage	V _F	I _F = 300 A, T _j = 25 °C	1.2	1.2	1.2	1.2	V
Reverse current	I _R	$V_R = 600 \text{ V}, T_j = 25 ^{\circ}\text{C}$	10	10	10	10	μA
		$V_R = 600 \text{ V}, T_j = 175 ^{\circ}\text{C}$	12	12	12	12	mA
Thermal characteristics							
Thermal resistance, junction - case	R_{thJC}		0.16	0.16	0.16	0.16	°C/W





S320J thru S320QR







