

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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S300B thru S300JR

Silicon Standard Recovery Diode

 $V_{RRM} = 100 \text{ V} - 600 \text{ V}$ $I_F = 300 \text{ A}$

Features

- High Surge Capability
- Types up to 600 V V_{RRM}

DO-9 Package



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

Parameter	Symbol	Conditions	S300B (R)	S300D (R)	S300E (R)	S300G (R)	S300J (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		100	200	300	400	600	V
RMS reverse voltage	V_{RMS}		70	140	212	280	420	V
DC blocking voltage	V_{DC}		100	200	300	400	600	V
Continuous forward	I _F	T _C ≤ 130 °C	300	300	300	300	300	Α
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	$T_C = 25 ^{\circ}\text{C}, t_p = 8.3 \text{ms}$	6850	6850	6850	6850	6850	Α
Operating temperature	T _j		-60 to 200	°C				
Storage temperature	T _{stg}		-60 to 200	°C				

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

Parameter	Symbol	Conditions	S300B (R)	S300D (R)	S300E (R)	S300G (R)	S300J (R)	Unit
Diode forward voltage	V _F	I _F = 300 A, T _j = 25 °C	1.2	1.2	1.2	1.2	1.2	V
Reverse current	I _R	V _R = 100 V, T _j = 25 °C	10	10	10	10	10	μA
		$V_R = 100 \text{ V}, T_j = 175 ^{\circ}\text{C}$	12	12	12	12	12	mA
Thermal characterist	ics							
Thermal resistance, junction - case	R_{thJC}		0.16	0.16	0.16	0.16	0.16	°C/W





S300B thru S300JR







