

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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Silicon Fast Recovery Diode

 $V_{RRM} = 50 \text{ V - } 400 \text{ V}$
 $I_F = 6 \text{ A}$

Features

- High Surge Capability
- Types up to 400 V V_{RRM}

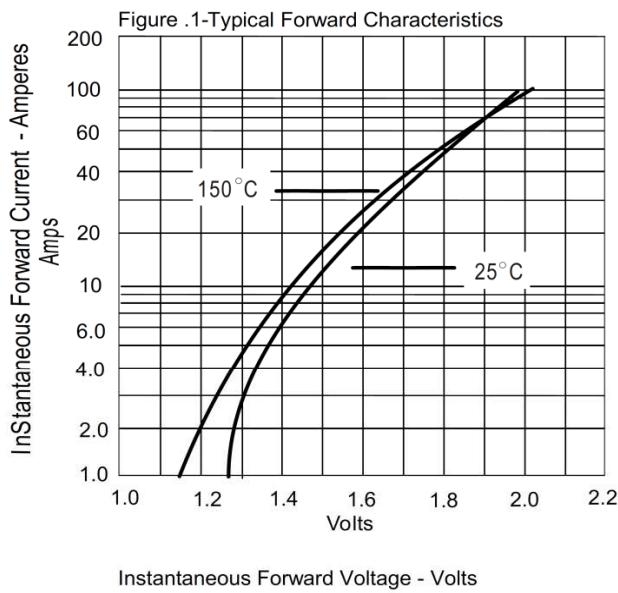
DO-4 Package

Maximum ratings, at $T_j = 25 \text{ }^\circ\text{C}$, unless otherwise specified ("R" devices have leads reversed)

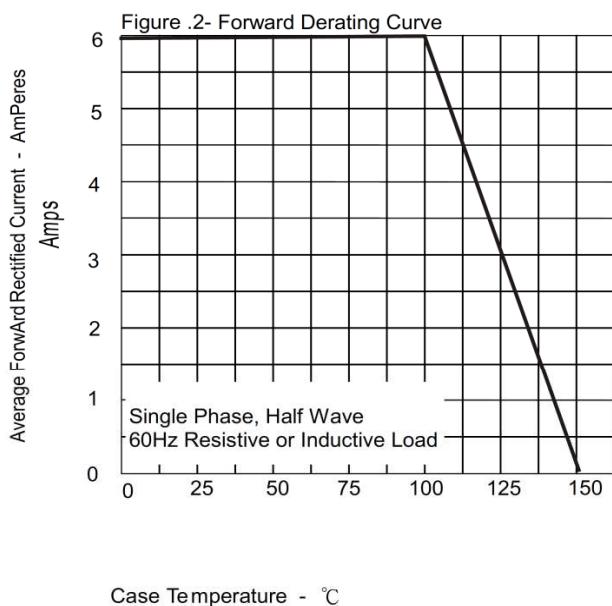
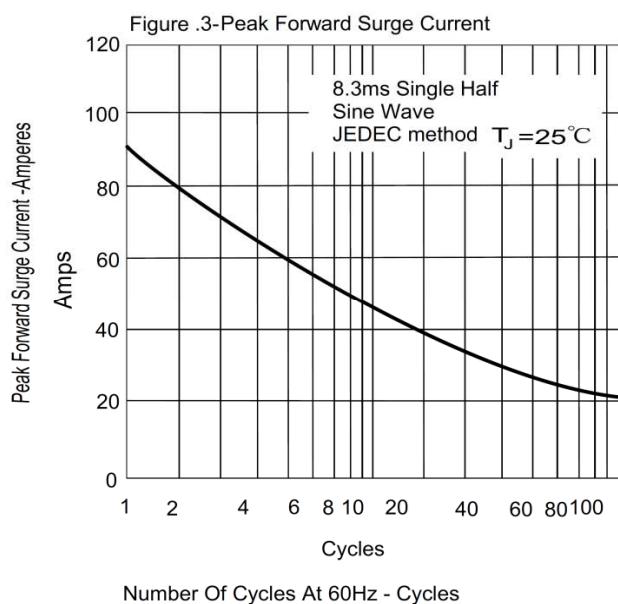
Parameter	Symbol	Conditions	1N3879 (R)	1N3880 (R)	1N3881 (R)	1N3882 (R)	1N3883 (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	300	400	V
RMS reverse voltage	V_{RMS}		35	70	140	210	280	V
DC blocking voltage	V_{DC}		50	100	200	300	400	V
Continuous forward current	I_F	$T_C \leq 100 \text{ }^\circ\text{C}$	6	6	6	6	6	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25 \text{ }^\circ\text{C}, t_p = 8.3 \text{ ms}$	90	90	90	90	90	A
Operating temperature	T_j		-65 to 150	$^\circ\text{C}$				
Storage temperature	T_{stg}		-65 to 175	$^\circ\text{C}$				

Electrical characteristics, at $T_j = 25 \text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	1N3879 (R)	1N3880 (R)	1N3881 (R)	1N3882 (R)	1N3883 (R)	Unit
Diode forward voltage	V_F	$I_F = 6 \text{ A}, T_j = 25 \text{ }^\circ\text{C}$	1.4	1.4	1.4	1.4	1.4	V
Reverse current	I_R	$V_R = 50 \text{ V}, T_j = 25 \text{ }^\circ\text{C}$	15	15	15	15	15	μA
Recovery Time								
Maximum reverse recovery time	T_{RR}	$I_F=0.5 \text{ A}, I_R=1.0 \text{ A}, I_{RR}=0.25 \text{ A}$	200	200	200	200	200	nS
Thermal characteristics								
Thermal resistance, junction - case	R_{thJC}		2.5	2.5	2.5	2.5	2.5	$^\circ\text{C/W}$



Instantaneous Forward Voltage - Volts


 Case Temperature - $^\circ\text{C}$


Number Of Cycles At 60Hz - Cycles

