



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 Standard Recovery Diode

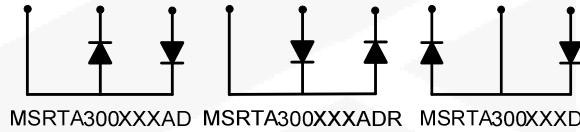
$V_{RRM} = 1200\text{ V} - 1600\text{ V}$

$I_{F(AV)} = 300\text{ A}$

Features

- High Surge Capability
- Types from 1200 V to 1600 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive

Heavy Three Tower Package



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

Parameter	Symbol	Conditions	MSRTA300120(A)D	MSRTA300140(A)D	MSRTA300160(A)D	Unit
Repetitive peak reverse voltage	V_{RRM}		1200	1400	1600	V
DC blocking voltage	V_{DC}		1200	1400	1600	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	MSRTA300120(A)D	MSRTA300140(A)D	MSRTA300160(A)D	Unit
Average forward current (per leg)	$I_{F(AV)}$	$T_C = 125\text{ }^\circ\text{C}$	300	300	300	A
Peak forward surge current (per leg)	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	3800	3800	3800	A
Maximum instantaneous forward voltage (per leg)	V_F	$I_{FM} = 300\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$	1.1	1.1	1.1	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	$T_j = 25\text{ }^\circ\text{C}$	20	20	20	μA
		$T_j = 150\text{ }^\circ\text{C}$	10	10	10	mA

Thermal characteristics

Maximum thermal resistance, junction - case (per leg)	$R_{\theta jc}$		0.28	0.28	0.28	$^\circ\text{C/W}$
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Figure .1- Typical Forward Characteristics

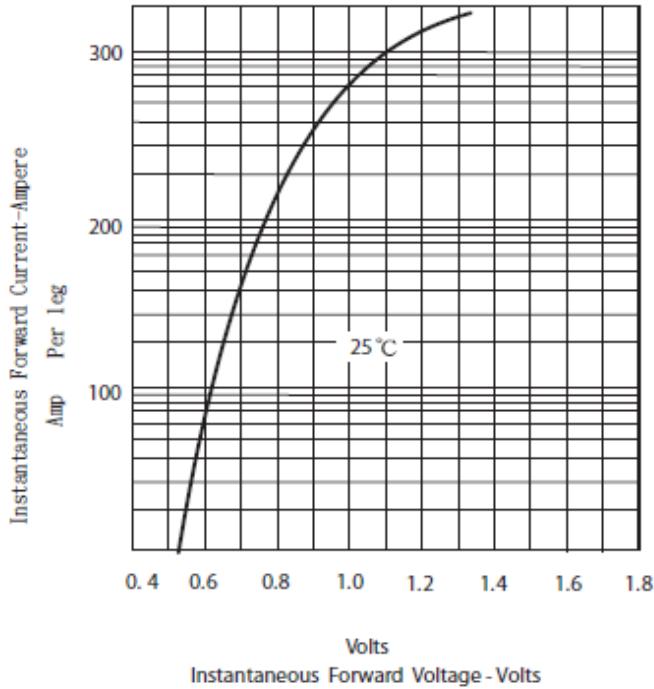


Figure.2 Forward Derating Curve

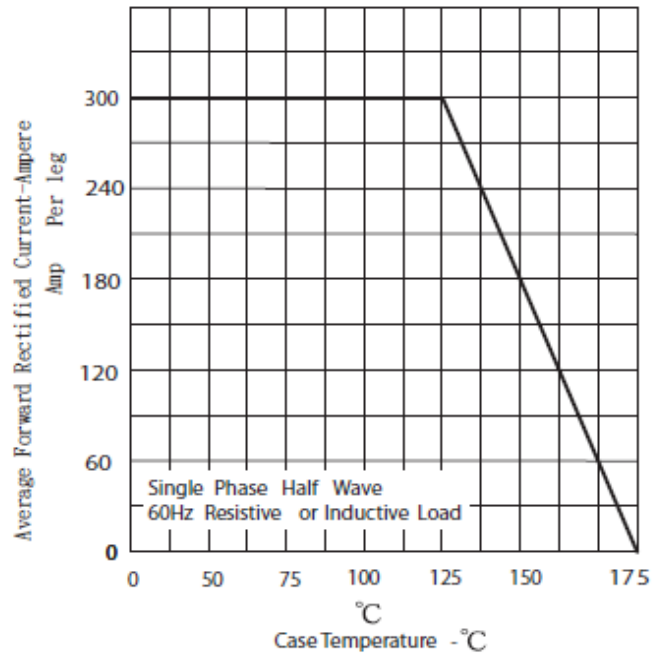


Figure.3-Peak Forward Surge Current

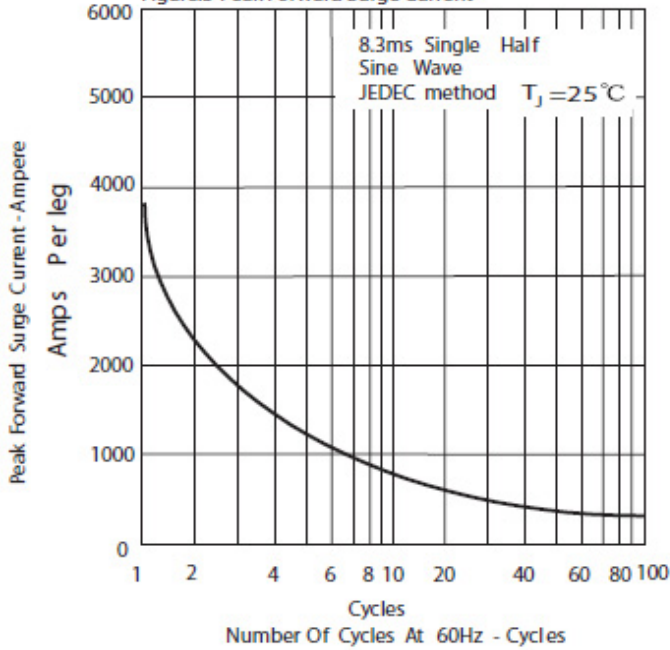
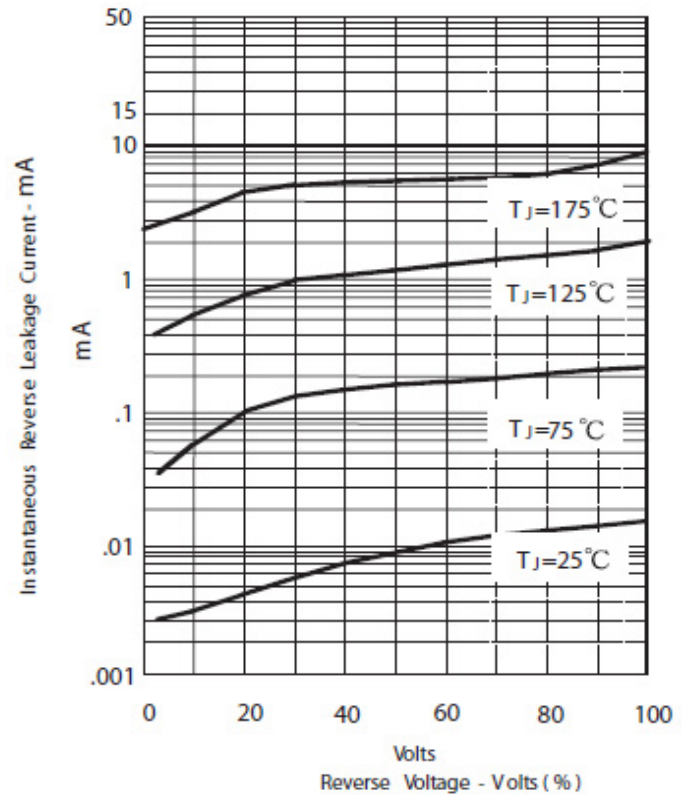
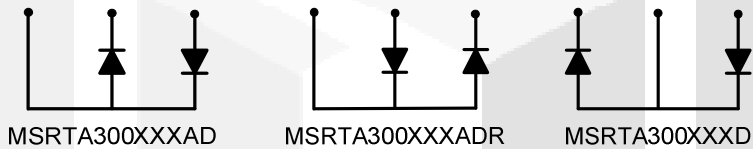
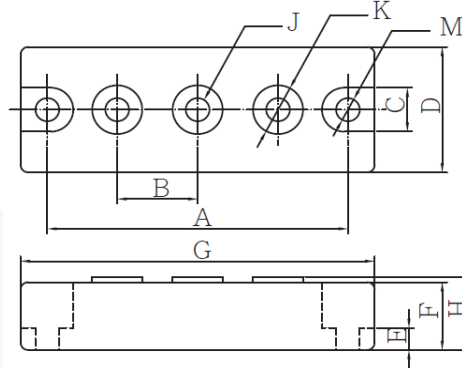


Figure .4 -Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	3.150	NOM	80.01	NOM	
B	.872	.892	22.15	22.65	
C	.465	.479	11.82	12.18	
D	1.337	1.356	33.95	34.45	
E	.230	.234	5.84	6.16	
F	.725	REF	18.42	REF	
G	3.668	3.768	93.17	95.71	
H	---	.791	---	20.10	
J	1/4-20 UNC FULL				
K	.509	.538	12.92	13.68	∅
M	.238	.258	6.05	6.55	∅