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!

Contact us

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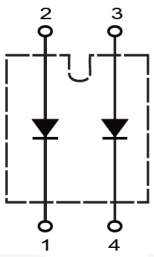
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Super Fast Recovery Rectifier Module Type 200 A

V_{RRM} = 1000 V
$I_{F(AV)}$ = 200 A

Features

- High Surge Capability
- Type 1000 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive



SOT-227 Package

RoHS COMPLIANT

REACH COMPLIANCE

Maximum ratings

Parameter	Symbol	Conditions	Value	Unit
Maximum recurrent peak reverse voltage	V_{RRM}		1000	V
Maximum DC blocking voltage	V_{DC}		1000	V
Maximum RMS Voltage	V_{RMS}		700	V
Operating temperature	T_j		-55 to 175	°C
Storage temperature	T_{stg}		-55 to 175	°C

Electrical characteristics at 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	Value	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T_C = 125 °C	200	A
Peak forward surge current (per leg)	I_{FSM}	8.3 ms, half sine	1600	A
Maximum instantaneous forward voltage* (per leg)	V_F	I_{FM} = 100 A, T_j = 25 °C	2.35	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	T_j = 25 °C T_j = 150 °C	25 3	µA mA
Isolation voltage	V_{iSO}	A.C. 1 minute	2500	V
Maximum reverse recovery time (per leg)	t_{rr}	I_F=0.5 A, I_R=1.0 A, I_{RR}= 0.25 A	125	ns

Thermal characteristics

Maximum thermal resistance junction to case (per leg)	$R_{\Theta jc}$		0.4	°C/W

* Pulse Test: Pulse width 300 µs, Duty < 2 %

Figure .1- Typical Forward Characteristics

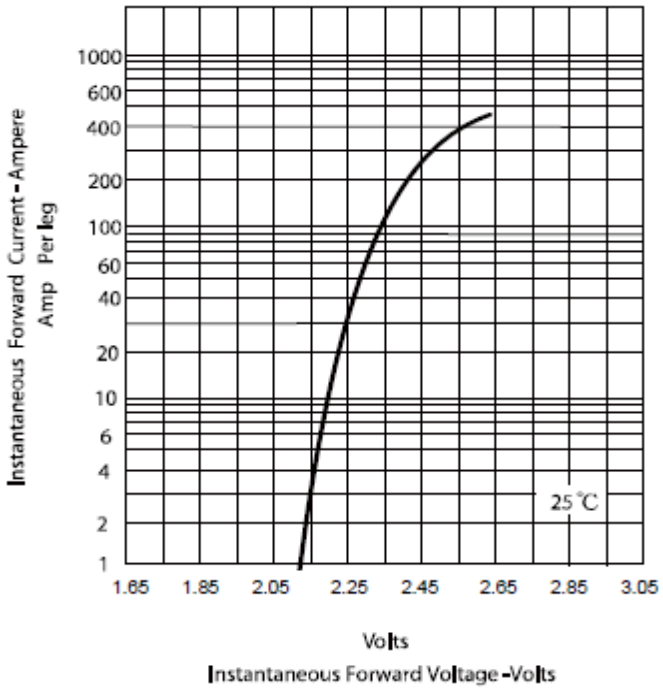
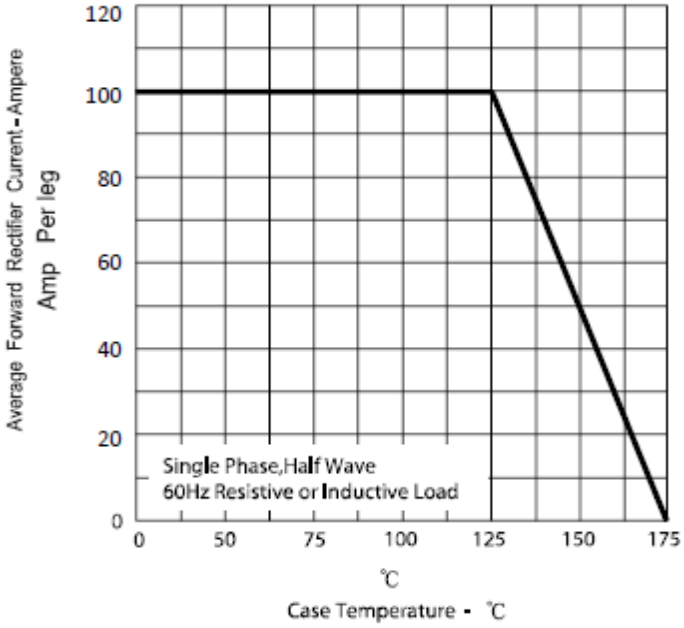


Figure.2 - Forward Derating Curve



Figupre.3 - Peak Forward Surge Current

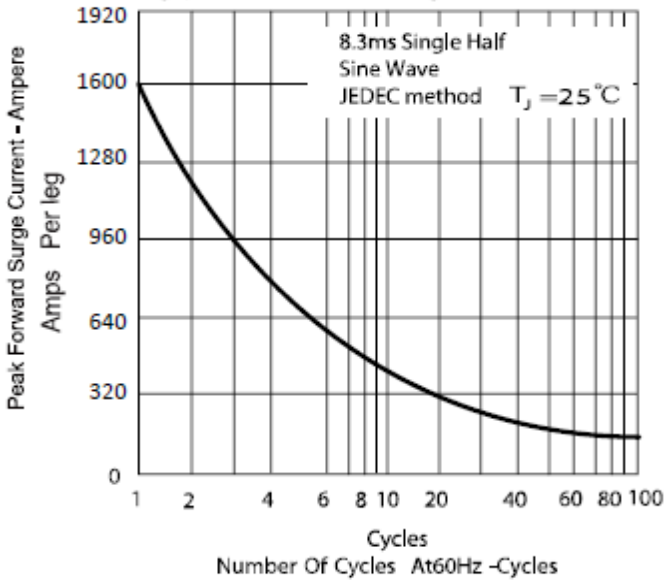
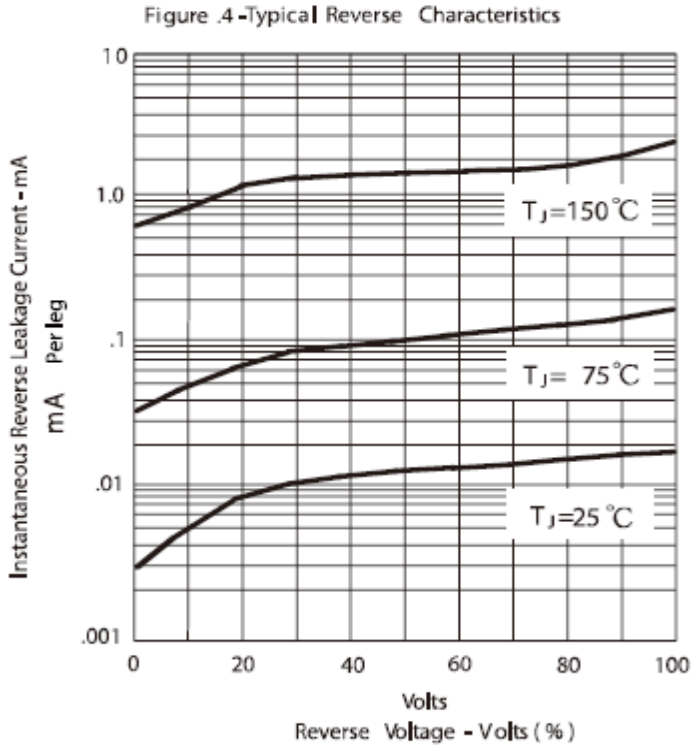
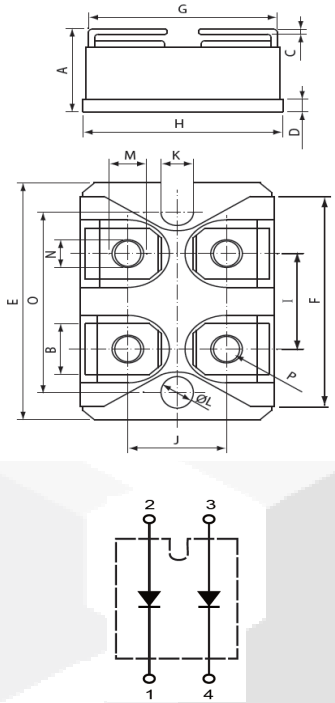


Figure .4 -Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.500	.519	12.70	13.20
B	.307	.322	7.80	8.20
C	.029	.033	.75	.84
D	.077	.082	1.95	2.10
E	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
H	.996	1.007	25.30	25.60
I	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
L	.161	.169	4.10	4.30
M	.181	.191	4.60	4.95
N	.165	.177	4.20	4.50
O	1.184	1.192	30.10	30.30
P	M4*8			