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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

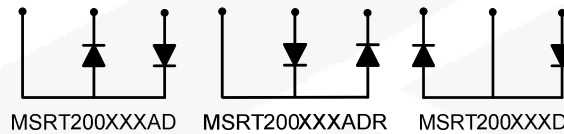
$V_{RRM} = 1200\text{ V} - 1600\text{ V}$

$I_{F(AV)} = 200\text{ A}$

### Features

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

Three Tower Package



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

Parameter	Symbol	Conditions	MSRT200120(A)D	MSRT200140(A)D	MSRT200160(A)D	Unit
Repetitive peak reverse voltage	$V_{RRM}$		1200	1400	1600	V
RMS reverse voltage	$V_{RMS}$		848	990	1131	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	MSRT200120(A)D	MSRT200140(A)D	MSRT200160(A)D	Unit
Average forward current (per leg)	$I_{F(AV)}$	$T_C = 140\text{ }^\circ\text{C}$	200	200	200	A
Peak forward surge current (per leg)	$I_{FSM}$	$t_p = 8.3\text{ ms}$ , half sine	3000	3000	3000	A
Maximum instantaneous forward voltage (per leg)	$V_F$	$I_{FM} = 200\text{ A}$ , $T_j = 25\text{ }^\circ\text{C}$	1.1	1.1	1.1	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	$I_R$	$T_j = 25\text{ }^\circ\text{C}$	10	10	10	$\mu\text{A}$
		$T_j = 150\text{ }^\circ\text{C}$	5	5	5	mA

### Thermal characteristics

Maximum thermal resistance, junction - case (per leg)	$R_{\theta jc}$		0.35	0.35	0.35	$^\circ\text{C/W}$
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Figure .1- Typical Forward Characteristics

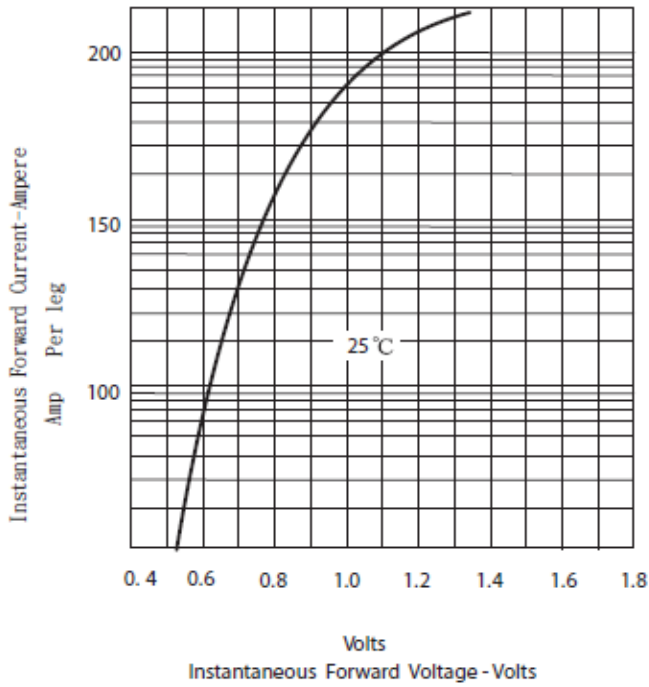


Figure.2 Forward Derating Curve

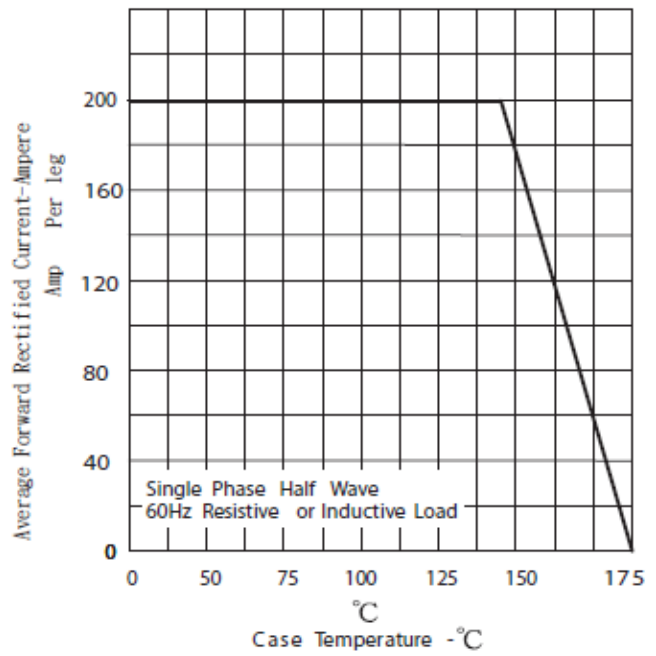


Figure.3-Peak Forward Surge Current

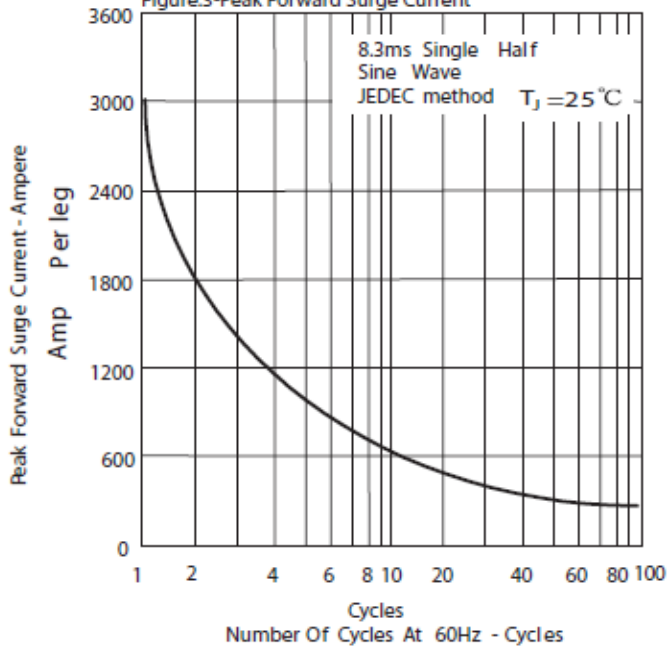
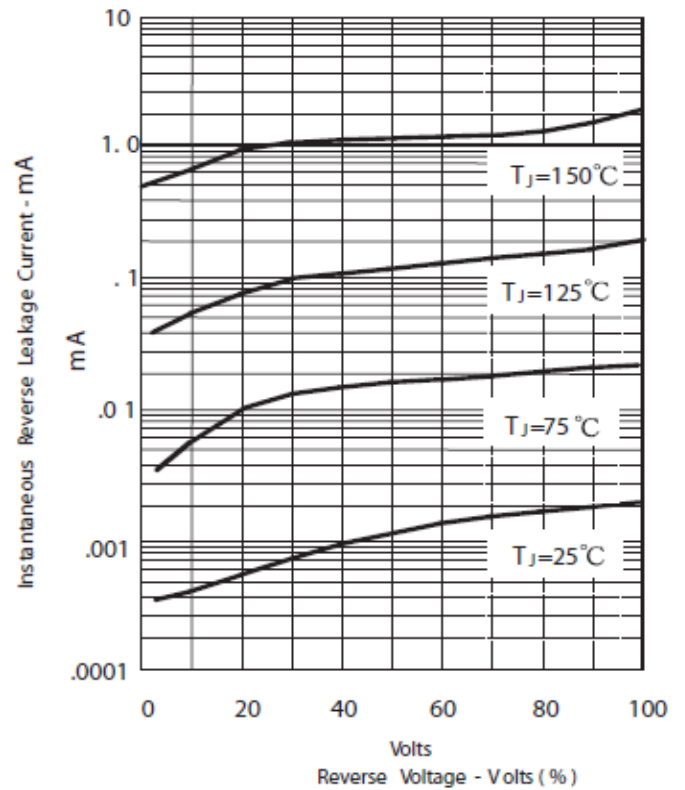
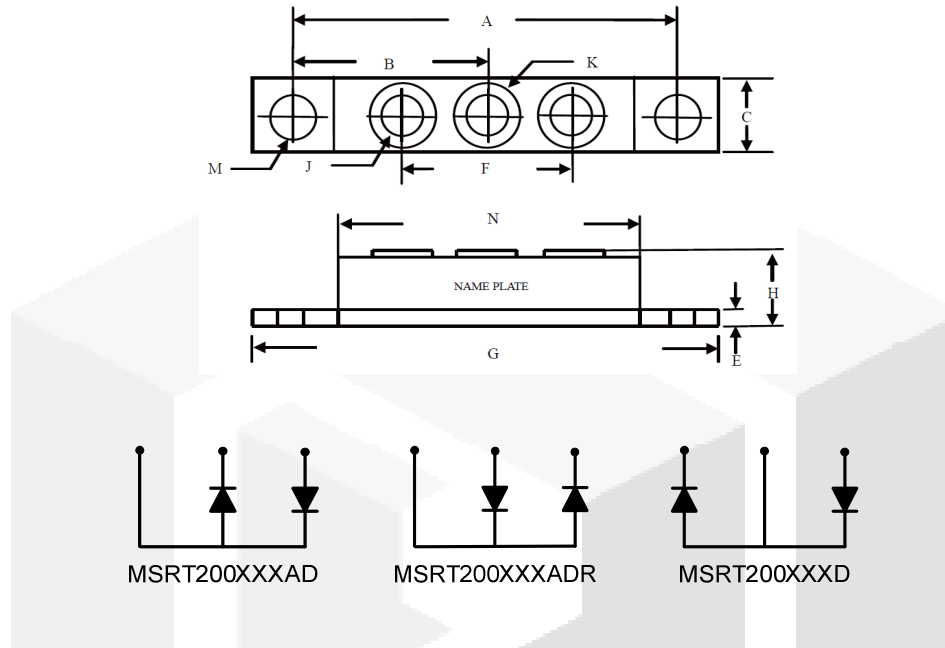


Figure .4-Typical Reverse Characteristics



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	3.150	NOM	80.01	NOM
B	1.565	1.585	39.75	40.26
C	0.700	0.800	17.78	20.32
E	0.119	0.132	3.02	3.35
F	1.327	-----	33.72	-----
G	3.550	3.650	90.17	92.71
H	0.677	0.720	17.20	18.30
J	1/4-20 UNC FULL			
K	0.472	0.511	12	13
M	0.275	0.295	6.99	7.49
N	2.380	2.460	60.5	62.5