

Silicon Standard Recovery Diode

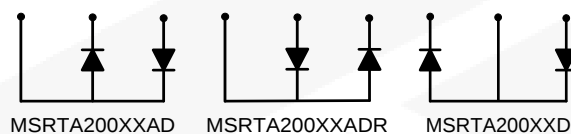
$V_{RRM} = 600\text{ V} - 1000\text{ V}$

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

Features

- High Surge Capability
- Types from 600 V to 1000 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	MSRTA20060(A)D	MSRTA20080(A)D	MSRTA200100(A)D	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
DC blocking voltage	V_{DC}		600	800	1000	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	MSRTA20060(A)D	MSRTA20080(A)D	MSRTA200100(A)D	Unit
Average forward current (per leg)	$I_{F(AV)}$	$T_C = 125\text{ }^{\circ}\text{C}$	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	μA
		$T_j = 150\text{ }^{\circ}\text{C}$	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

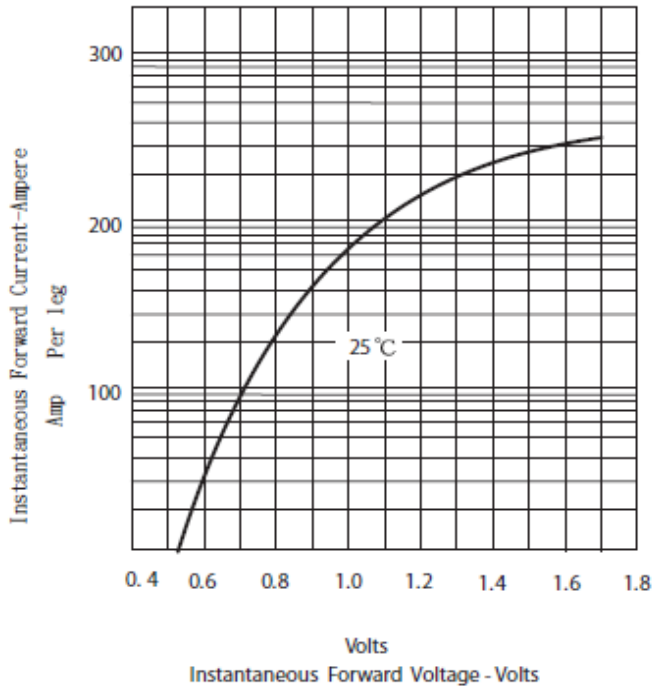


Figure. 2 Forward Derating Curve

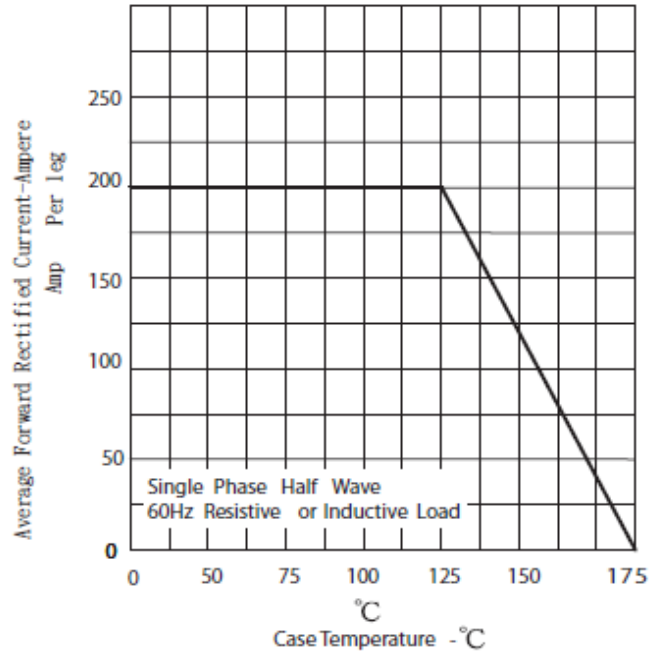


Figure.3-Peak Forward Surge Current

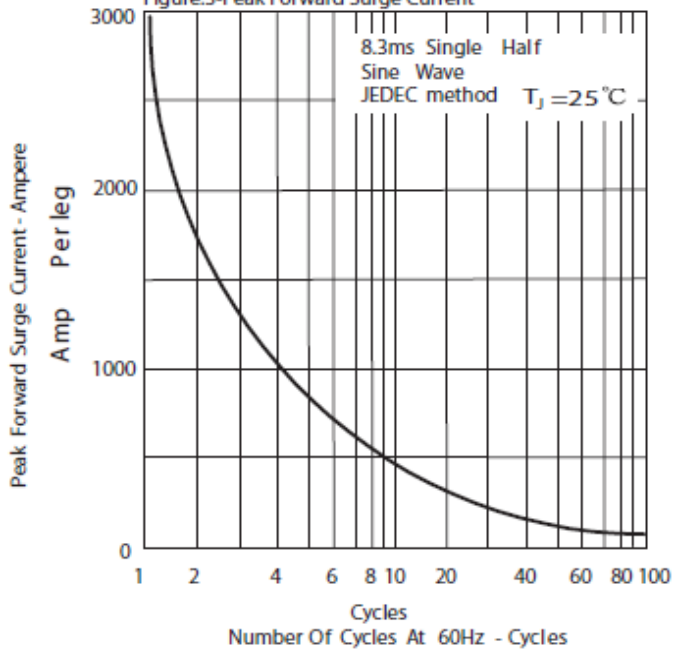
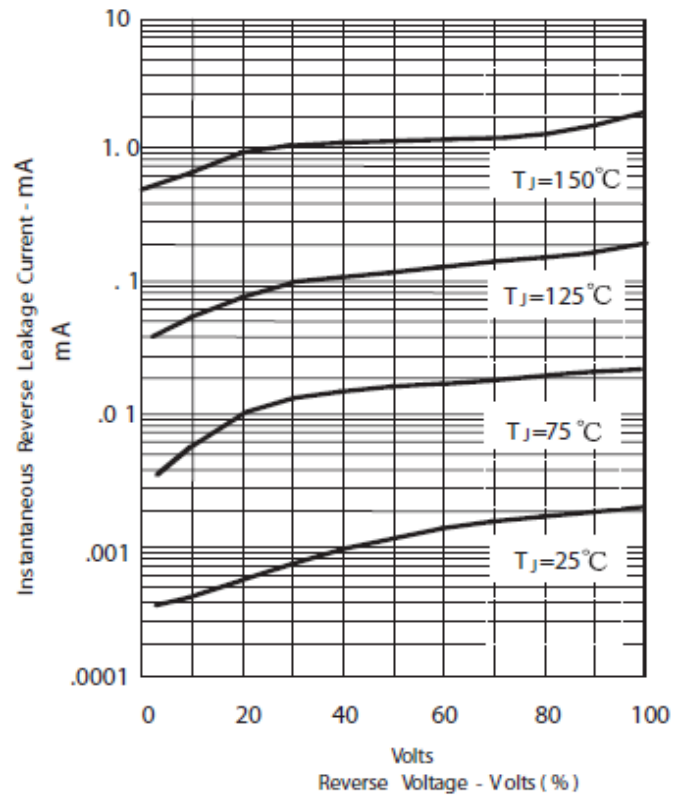
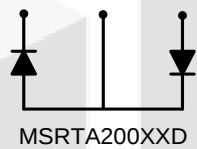
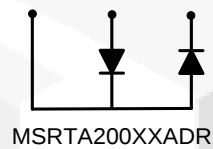
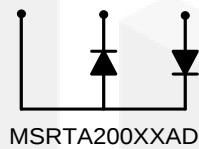
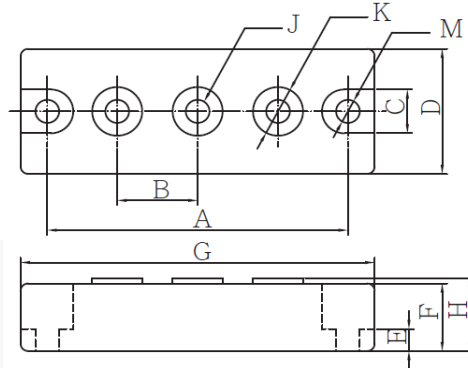


Figure .4 Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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	Ø
M	.238	.258	6.05	6.55	Ø

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