



**MSRTA60060(A) thru
MSRTA600100(A)**

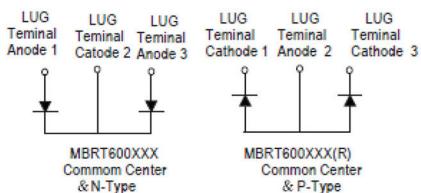
V_{RRM} = 600 V - 1600 V

I_F = 600 A

Features

- High Surge Capability
- Types up to 1600 V V_{RRM}

Heavy Three Tower Package



Maximum ratings, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MSRTA60060(A)	MSRTA60080(A)	MSRTA600100(A)	Unit
Repetitive peak reverse voltage	V _{RRM}		600	800	1000	V
RMS reverse voltage	V _{RMS}		420	560	700	V
DC blocking voltage	V _{DC}		600	800	1000	V
Continuous forward current	I _F	T _C ≤ 125 °C	600	600	600	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	5800	5800	5800	A
Operating temperature	T _j		-40 to 175	-40 to 175	-40 to 175	°C
Storage temperature	T _{stg}		-40 to 175	-40 to 175	-40 to 175	°C

Electrical characteristics, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MSRTA60060(A)	MSRTA60080(A)	MSRTA600100(A)	Unit
Diode forward voltage	V _F	I _F = 600 A, T _j = 25 °C	1.2	1.2	1.2	V
Reverse current	I _R	V _R = 600 V, T _j = 25 °C	25	25	25	µA
		V _R = 600 V, T _j = 150 °C	10	10	10	mA

Thermal characteristics

Thermal resistance, junction - case	R _{thJC}		0.12	0.12	0.12	°C/W
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Figure .1- Typical Forward Characteristics

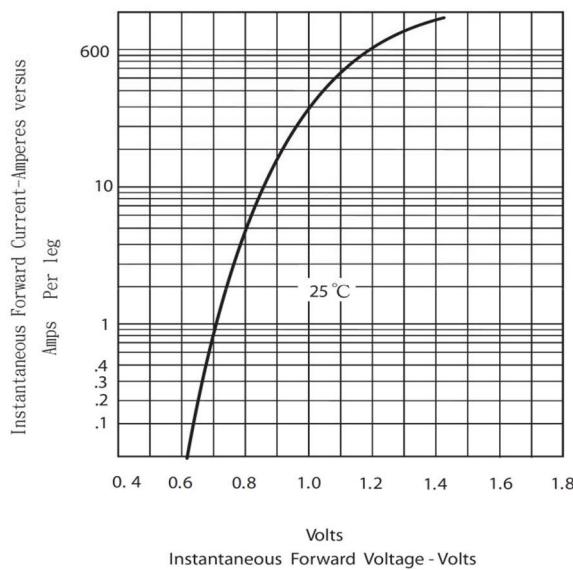


Figure.2 Forward Derating Curve

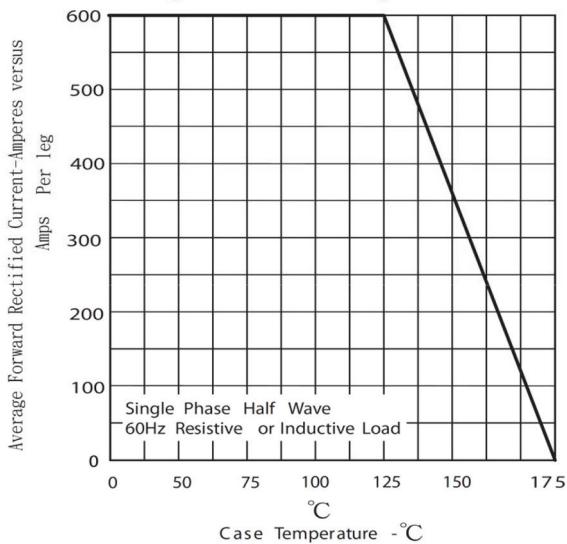


Figure.3-Peak Forward Surge Current

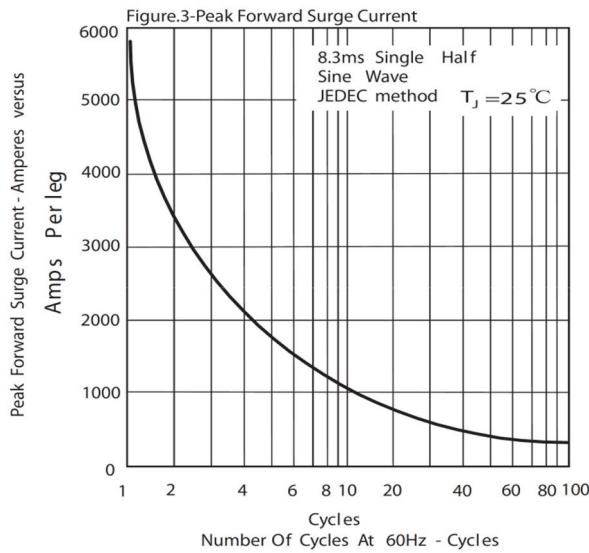
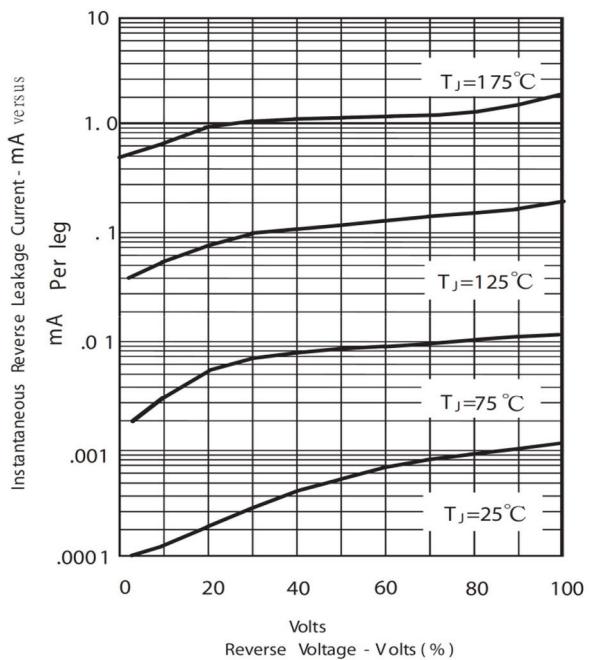


Figure .4 -Typical Reverse Characteristics



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