

■ ABSOLUTE MAXIMUM RATINGS (PER LEG) ($T_A=25^\circ\text{C}$ unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{RM}	120	V
Working Peak Reverse Voltage	V_{RWM}	120	V
Peak Repetitive Reverse Voltage	V_{RRM}	120	V
Average Rectified Output Current Per Device	Per Leg	15	A
	Total	30	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	150	A
Operating Junction Temperature	T_J	-65~+150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65~+150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	62.5	$^\circ\text{C/W}$
Junction to Case	θ_{JC}	3.31	$^\circ\text{C/W}$

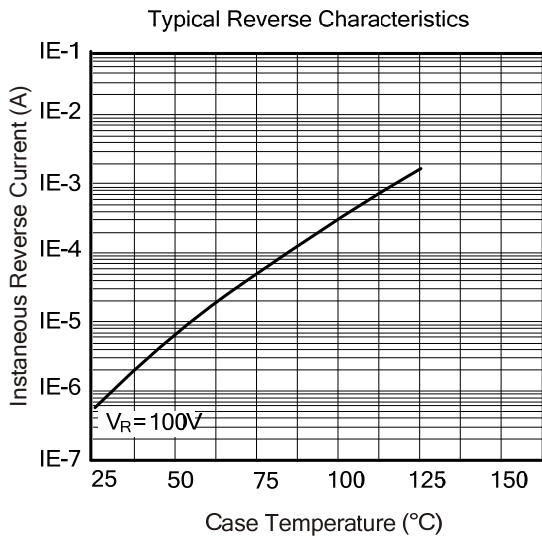
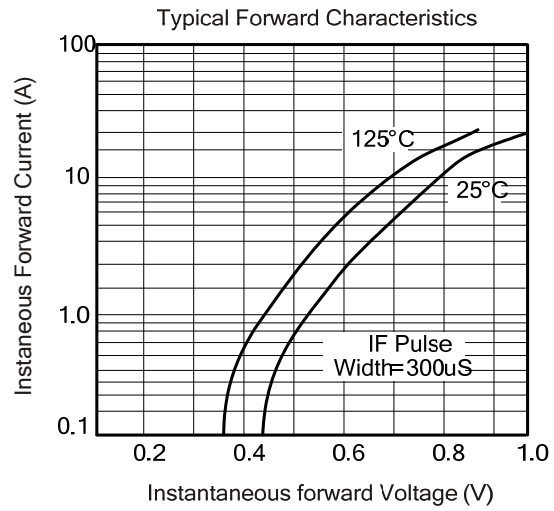
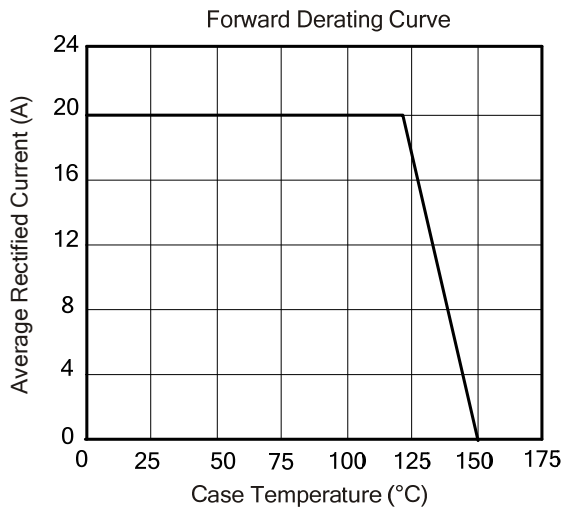
■ ELECTRICAL CHARACTERISTICS (PER LEG) ($T_A=25^\circ\text{C}$ unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	$I_R=0.50\text{mA}$	120			V
Forward Voltage Drop	V_{FM}	$I_F=15\text{A}, T_J=25^\circ\text{C}$			0.83	V
		$I_F=15\text{A}, T_J=125^\circ\text{C}$			0.68	V
Leakage Current (Note 1)	I_{RM}	$V_R=120\text{V}, T_J=25^\circ\text{C}$			100	μA
		$V_R=120\text{V}, T_J=125^\circ\text{C}$			20	mA

Notes: 1. Short duration pulse test used to minimize self-heating effect.

2. Thermal resistance junction to case mounted on heatsink.

■ TYPICAL CHARACTERISTICS



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