



■ 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	$V_{RM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$	100	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	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	$I_{FSM}$	160	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 CHARACTERISTICS (PER LEG)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	62.5	$^\circ\text{C/W}$
Junction to Case	$\theta_{JC}$	2	$^\circ\text{C/W}$

■ 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)	$V_{(BR)R}$	$I_R=0.50\text{mA}$	100			V
Forward Voltage Drop	$V_{FM}$	$I_F=15\text{A}, T_J=25^\circ\text{C}$			0.75	V
		$I_F=15\text{A}, T_J=125^\circ\text{C}$			0.70	V
Leakage Current (Note 1)	$I_{RM}$	$V_R=100\text{V}, T_J=25^\circ\text{C}$			200	$\mu\text{A}$
		$V_R=100\text{V}, T_J=125^\circ\text{C}$			25	$\text{mA}$

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

2. Thermal resistance junction to case mounted on heatsink.

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