

■ 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}	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	V
Average Rectified Output Current	Per Leg	10	A
	Total	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	250	A
Isolation Voltage From Terminal Heatsink $t=1\text{min.}$	V_{AC}	2000	V
Storage Temperature	T_{STG}	-65~+150	$^{\circ}\text{C}$
Operating Junction Temperature	T_J	-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	θ_{JA}	62.5	$^{\circ}\text{C/W}$
Junction to Case	θ_{JC}	3	$^{\circ}\text{C/W}$

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V_F	$I_F=10\text{A}, T_J=25^{\circ}\text{C}$		0.64	0.75	V
		$I_F=10\text{A}, T_J=125^{\circ}\text{C}$		0.59	0.70	V
Leakage Current (Note 1)	I_R	$V_R=60\text{V}, T_J=25^{\circ}\text{C}$		0.04	1.0	mA
		$V_R=60\text{V}, T_J=100^{\circ}\text{C}$			50	mA

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

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