

## **ULTRA FAST RECOVERY POWER RECTIFIER**

#### Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	600	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ $T_{C} = 100^{\circ}C$	20	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	120	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and StorageTemperature	- 65 to +150	°C

## **Thermal Characteristics**

Symbol	Parameter	Value	Units
R <sub>θJC</sub>	Maximum Thermal Resistance, Junction to Case	1.25	°C/W

## Electrical Characteristics Tc=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 20A I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C			2.2 2.0	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current @ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C			10 100	μA
t <sub>rr</sub> Irr Q <sub>rr</sub>	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge (I <sub>F</sub> =20A, di/dt = 200A/µs)				90 8 360	ns A nC
W <sub>AVL</sub> Pulse Test: Pulse	Avalanche Energy Width=300µs, Duty Cycle=2%		1.0			mJ



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