

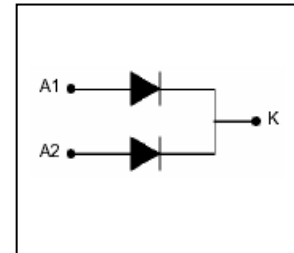
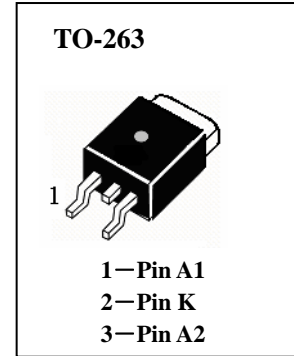


20A HIGH VOLTAGE SCHOTTKY BARREIER RECTIFIER

■ Features

- 20 Amps Total (10 Amps Per Diode Leg)
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheelings, and Polarity Protection Applications

■ Package



■ Maximum Ratings

- T_{stg} —Storage Temperature..... -65~175°C
- T_j —Operating Temperature -65~175°C
- V_{RRM} —Peak Repetitive Reverse Voltage.....100V
- V_{RWM} — Working Peak Reverse Voltage..... 100V
- V_R — DC Blocking Voltage..... 100V
- $V_{R(RMS)}$ —RMS Reverse Voltage..... 70V
- $I_{F(AV)}$ —Average Rectified Output Current@ $T_c=125^\circ C$Double Dies 20A
(Note 1)Single Die 10A
- I_{FSM} —Non-Repetitive Peak Forward Surge Current (Single Die, 60Hz)150A

■ Electrical Characteristic @ $T_a=25^\circ C$ unless otherwise specified

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

For capacitive load, derate current by 20%.

Characteristic	Symbol	Min	Max	Unit	Condition
Forward Voltage Drop	V_{FM}		0.75 0.85 0.85 1.02	V	$I_F=10A, T_C=125^\circ C$ $I_F=10A, T_C=25^\circ C$ $I_F=20A, T_C=125^\circ C$ $I_F=20A, T_C=25^\circ C$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		0.15 150	mA	$V_R = V_{RRM} \quad T_C=25^\circ C$ $T_C=125^\circ C$
Typical Junction Capacitance(Note 2)	C_j		1000	pF	
Typical Thermal Resistance Junction to Case(Note 1)	R_{th-j}		1.6	$^\circ C/W$	
Voltage Rate Of Change	dV/dt		10000	V/s	

Notes: 1. Thermal resistance junction to case mounted on heatsink.

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.



PERFORMANCE CURVES

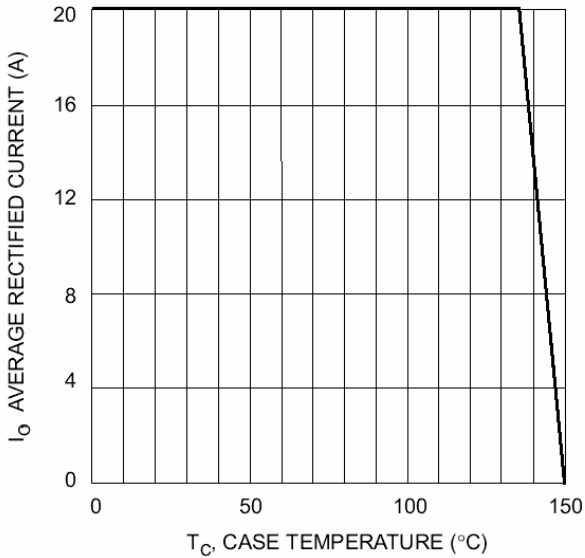


Fig. 1 Fwd Current Derating Curve

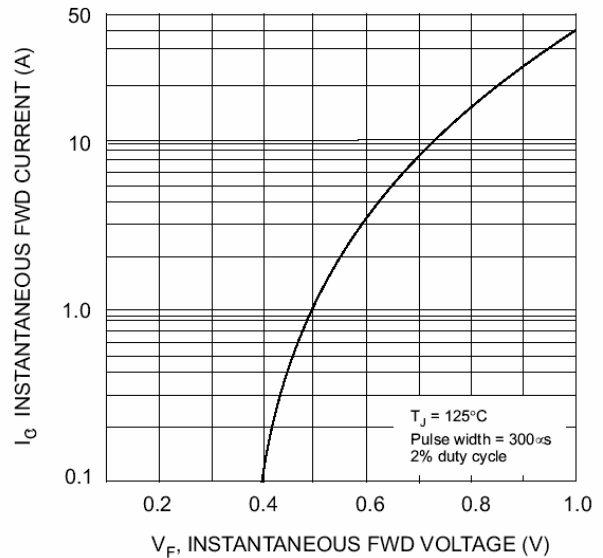


Fig. 2 Typical Forward Characteristics

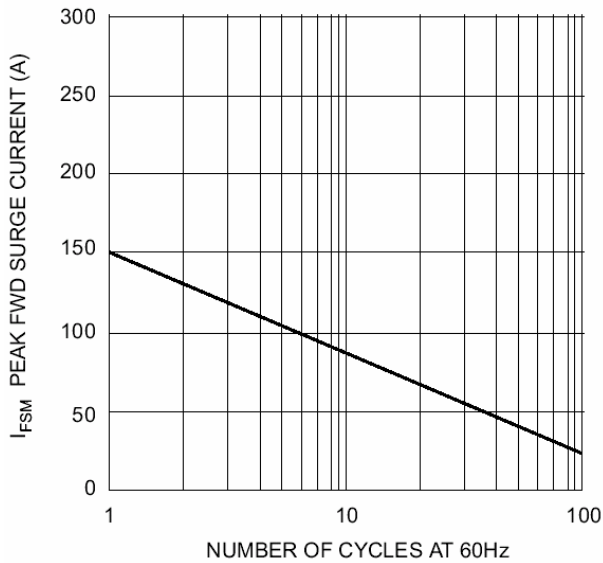


Fig. 3 Max Non-Repetitive Surge Current

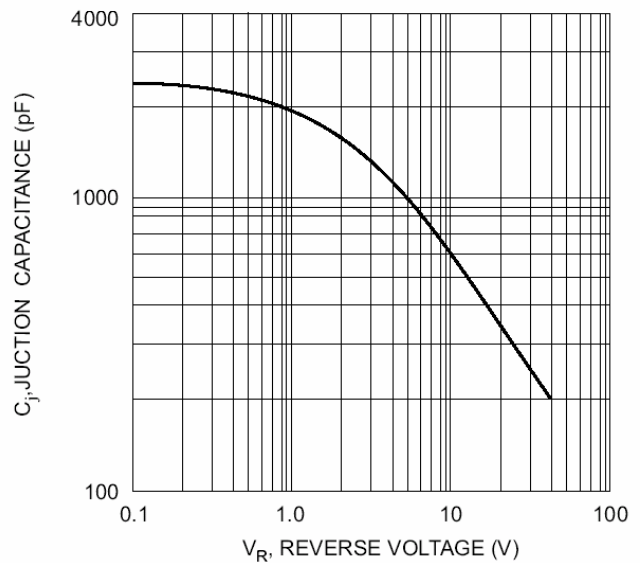


Fig. 4 Typical Junction Capacitance

