

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

SR20100

FEATURES

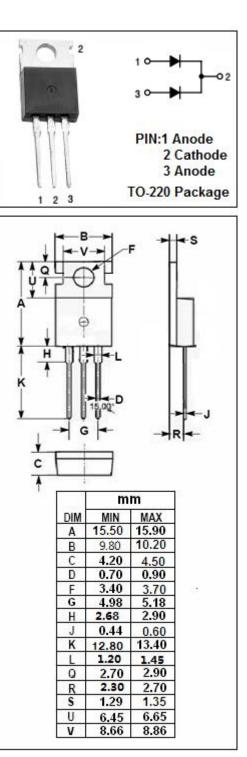
- Low Forward Voltage
- 175℃ Operating Junction Temperature
- Guaranteed Reverse Avalanche
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 $^\circ\!\mathrm{C}$ Max. for 10 Seconds

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	100	V
IF(AV)	Average Rectified Forward Current (Rated V _R) T _C = 100 $^\circ \rm C$	20	A
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	100	A
I _{RRM}	Peak Repetitive Reverse Vr=100V;Tj=25℃ Current Vr=100V;Tj=125℃	0.1 16	mA
TJ	Junction Temperature -55~		°C
T _{stg}	Storage Temperature Range	-55~175	°C



isc website: <u>www.iscsemi.com</u>



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A ; Tc= 25 ℃	0.90	V
I _R	Maximum Instantaneous Reverse Current (Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C)	Tc= 25℃ Tc= 125℃	0.1 5.0	mA

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