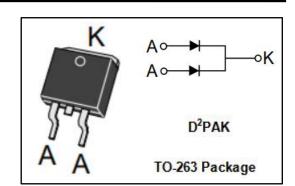


# **Schottky Barrier Rectifier**

# SBR20A60CTB

#### **FEATURES**

- · Guard -Ring for Stress Protection
- Low Forward Voltage
- · High Operating Junction Temperature
- · Guaranteed Reverse Avalanche
- Low Power Loss/High Efficiency
- · High surge capability
- 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 ℃ Max. for 10 Seconds

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER		UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
I <sub>F(AV)</sub>	Average Rectified Forward Current (Rated $V_R$ ) $T_C$ = 133 $^{\circ}C$	10	Α
I <sub>FRM</sub>	Peak Repetitive Forward Current (Rated V <sub>R</sub> ,Square Wave,20kHz) T <sub>C</sub> = 133 °C	20	А
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	180	Α
TJ	Junction Temperature	-65~150	${\mathbb C}$
T <sub>stg</sub>	Storage Temperature Range	-65~175	${\mathbb C}$
dv/dt	Voltage Rate of Change (Rated V <sub>R</sub> )	10,000	V/μs

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	2.0	°C/W

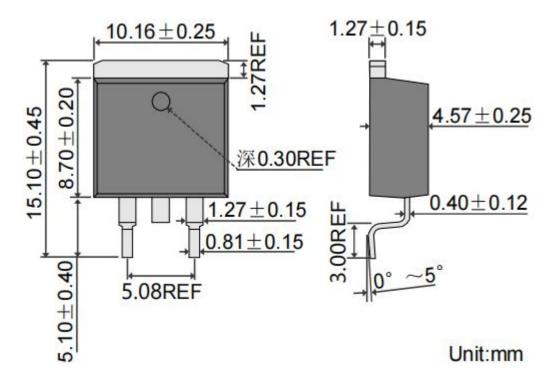


# **Schottky Barrier Rectifier**

### SBR20A60CTB

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 10A ; T <sub>C</sub> = 25 °C I <sub>F</sub> = 10A ; T <sub>C</sub> = 125 °C	0.75 0.65	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 25 <sup>°</sup> C Rated DC Voltage, T <sub>C</sub> = 125 <sup>°</sup> C	0.5 100	mA



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