

Schottky Barrier Rectifier

SBCJ1040

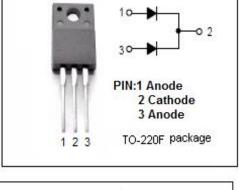
FEATURES

- · High Current Capability, Low Forward Voltage Drop
- · High Surge Capacity
- Guarding for Overvoltage protection
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



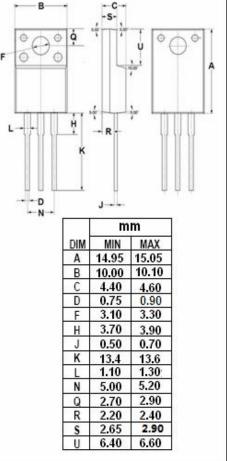
MECHANICAL CHARACTERISTICS

- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- High Temperature Soldering Guaranteed:
 250℃ Max. for 10 Seconds



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	40	V
I _{F(AV)}	Average Rectified Forward Current (Per Leg) (Total)	5 10	Α
I _{FSM}	Nonrepetitive Peak Surge Current 50/60Hz half sine-wave superimposed on rated load conditions	100/120	Α
TJ	Junction Temperature	-50~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-50~175	$^{\circ}$





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	5.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 5A ; T _C = 25 °C	0.55	- V
		I _F = 10A ; T _C = 25°C	0.63	
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 ℃	300	uA

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