

Schottky Barrier Rectifier

SBT10100UFCT

FEATURES

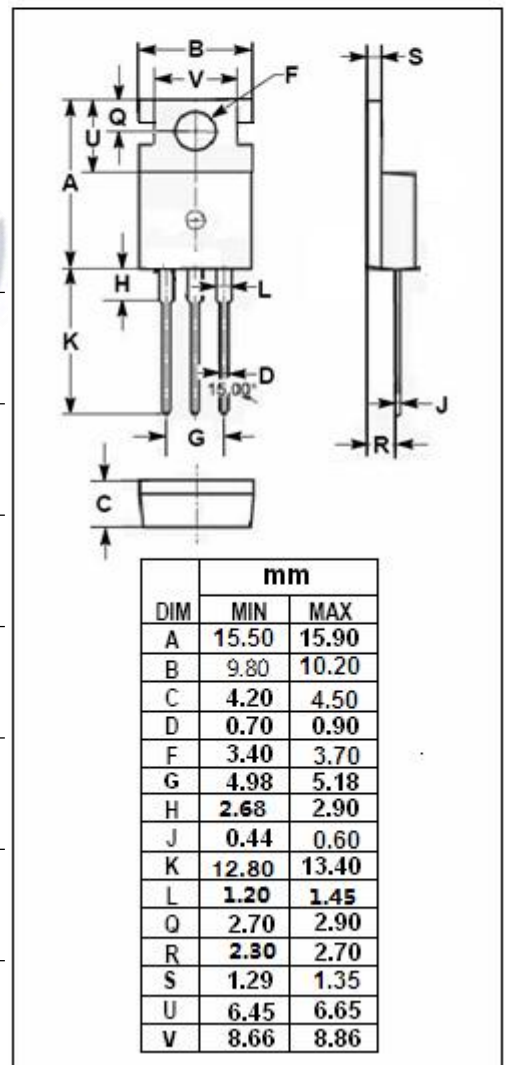
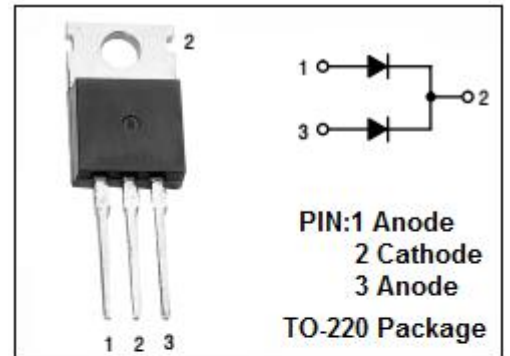
- Ideal for automated placement
- 150°C Operating Junction Temperature
- Low Power Loss
- High Efficiency
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

- Case: Molded plastic
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable

ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>R</sub> RM V <sub>R</sub>	Peak Repetitive Reverse Voltage DC Blocking Voltage	100	V
V <sub>R</sub> MS	RMS Voltage	70	V
I <sub>F</sub> (AV)	Average Rectified Forward Current (Rated V <sub>R</sub> ) T <sub>C</sub> = 100°C	10	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	120	A
T <sub>J</sub>	Junction Temperature	-55~150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C



**Schottky Barrier Rectifier****SBT10100UFCT****ELECTRICAL CHARACTERISTICS** (Pulse Test: Pulse Width=300  $\mu$  s, Duty Cycle  $\leq$  2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 5A ; T <sub>C</sub> = 25°C	0.8	V
		I <sub>F</sub> = 5A ; T <sub>C</sub> = 125°C	0.7	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 25°C	0.1	mA
		Rated DC Voltage, T <sub>C</sub> = 125°C	15	mA

**isc**  
1997