10A Schottky Barrier Rectifiers

FEATURES

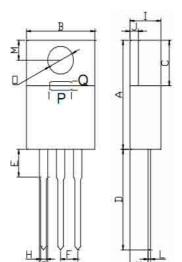
- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0

MECHANICAL DATA

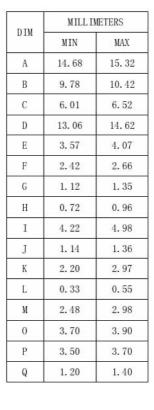
• Case :TO-220 molded plastic

• Polarity: As marked on the body

• Mounting position : Any



TO-220 PACKAGE





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°Cambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%



Lead Free

CHARACTERISTICS	SYMBOL	MBR10100CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	Vcc	100	V
Maximum Average Forward Rectified Current	I (AV)	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	125	A
Maximum Forward Voltage at 5A DC	VF	0. 85	V
Maximum DC Reverse Current @TC=25℃ at Rated DC Blocking Voltage @TC=125℃	IR	0. 01 15	MA
Typical Thermal Resistance	RO J C	3. 0	°C/W
Operating Temperature Range	ТЈ	-55to+175	$^{\circ}$
Storage Temperature Range	TSTG	−55to+175	$^{\circ}$



RATINGS AND CHARACTERISTIC CURVES

