SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 60 Volts FORWARD CURRENT - 20 Amperes

FEATURES

PART DISCONTINUED

- · Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low V_F
- · High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

Case: ITO-220AB molded plastic
Polarity: AS marked on the body
Weight: 0.06 ounces, 1.7 grams

· Mounting position : Any

• Max. mounting torque=0.5N.m(5.1Kgf.cm)

ITO-220AB ITO-220AB DIM MIN MAX Α 15.50 16.50 10.00 10.40 3.00 3.50 D 9.00 9.50 2.90 3.60 13.46 14.22 2 G 1.15 1.70 H 2.40 2.70 0.75 1.00 0.70 0.45 3.00 3.30 4.36 4.77 2.80 2.48 2.50 2.80 All dimension in millimeter PIN 1

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

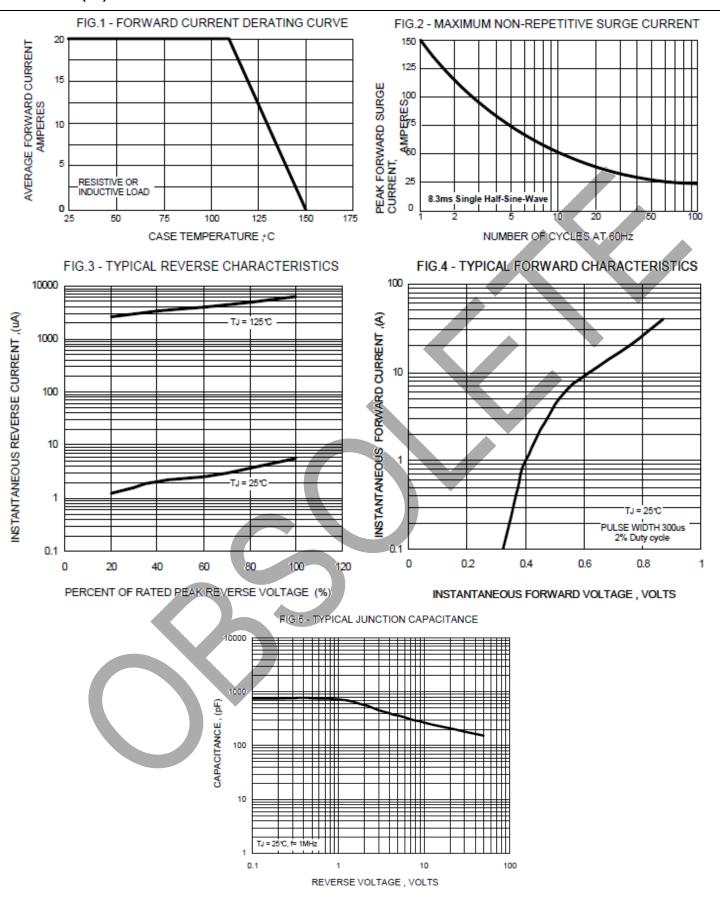
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MBRF2060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current (See Fig.1) T _c =110°C	I(AV)	20	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	150	А
Peak Repetitive Reverse Current tp=2us, square F=1KHz @T _J =25°C	IRRM	1	А
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
F=10A @ TJ = 25 °C Maximum Forward F=10A @ TJ = 125 °C Voltage (Note 4) F=20A @ TJ = 25 °C IF=20A @ TJ = 125 °C IF=20A @ TJ = 125 °C	VF	0.80 0.70 0.95 0.85	٧
Maximum DC Reverse Current @TJ = 25 °C at Rated DC Blocking Voltage @TJ =125 °C	lR	0.02 25	mA
Typical Junction Capacitance per element (Note 5)	Сл	400	pF
Typical Thermal Resistance (Note 6)	Rejc	2.5	°C/W
Operating Temperature Range Storage Temperature Range	Тл, Тэтс	-55 to +150 -55 to +175	°C
Dielectric Strengh from terminals to case, AC with t=1 minute, RH<30%	Vdis	2000	V

Note

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. 300us pulse width, 2% duty cycle.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 6. Device mounted on 100 mm x 100 mm x 2 mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES MBRF2060CT(LS)

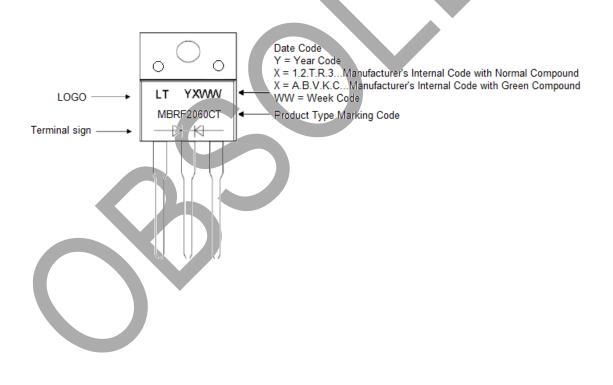




Ordering Information:









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