

Product Specification

GOODARK Type

MBRF10200CT

Construction : Schottky Barrier Rectifier

Application : For General Purpose

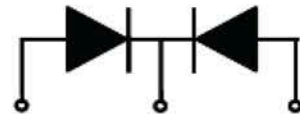
(Manufacturer) :

Surge Components. Inc.

Prepared on Sep. 17th, 2008

Prepared: R & D Department

Approval: QRA Department



1. Anode 2. Cathode 3. Anode

SCHOTTKY BARRIER RECTIFIER

10 AMPERES

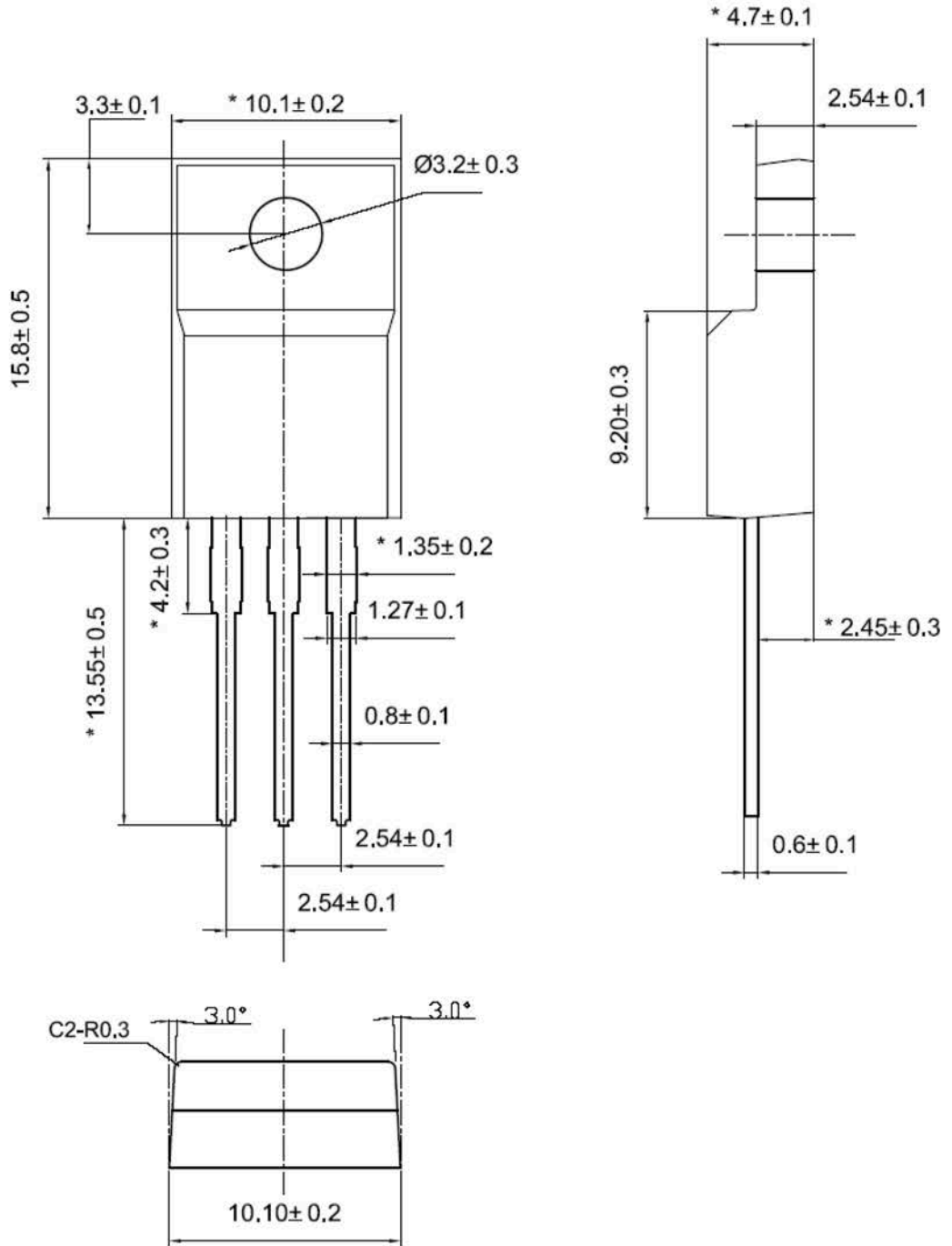
200 VOLTS

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1. Package Outline (TO220F-AB)

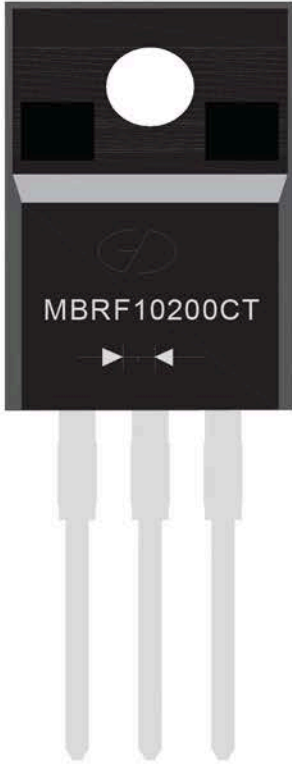
UNIT:mm




Lead Frame Material : Copper

Plating: Pure Tin Plating

2.MARKING



1. Part Name : MBRF10200CT
2. Logo Mark:
3. Polarity: 

3.Features& Mechanical Characteristics

Features

- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Guarding for over voltage protection
- For use in low voltage, high frequency inverters,
- Free wheeling, and polarity protection applications

Mechanical Characteristics

- Case: Epoxy, Molded
- Weight: 1.9grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max.for10 sec
- Shipped 50 units per plastic tube

4.Maximum Ratings and Electrical Characteristics

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS(TC=25°C unless otherwise moted)					
PARAMETER	TEST CONDITIONS		SYMBOL	MBRF10200CT	UNIT
Maximum repetitive peak reverse voltage			VRRM	200	V
Working peak reverse voltage			VRWM	200	V
Maximum DC blocking voltage			VDC	200	V
Maximum average forward rectified current at Tc=105°C total device per diode			IF(AV)	10 5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			IFSM	125	A
Peak repetitive reverse current per leg at tp=2.0us , 1KHz			IRRM	0.5	A
Voltage rate of change (rated VR)			DV/dt	10000	V/us
Operating junction temperature range			TJ	-55 to+150	°C
Storage temperature range			TSTG	-55 to+150	°C
Isolation voltage (TO220F-AB only) from terminal to heatsink t = 1 sec			VAC	1500	V
Maximum instantaneous forward voltage per leg	IF=5A IF=5A	TC=25°C TC=125°C	VF	0.92 0.82	V
Maximum reverse current per leg at working peak Reverse voltage	TJ=25°C TJ=100°C		IR	500 7	uA mA

Thermal Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Max	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	4.0	°C /W
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5	°C /W

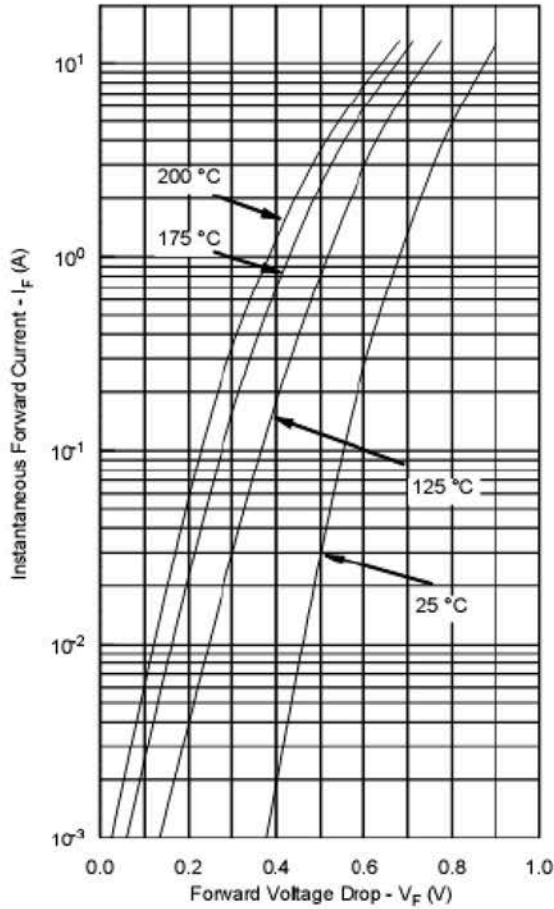
Note:

1. Screw mounting with 4-40 screw, where washer diameteris≤4.9mm(0.19 ")
2. Pulse test:300us pulse width,1% duty cycle

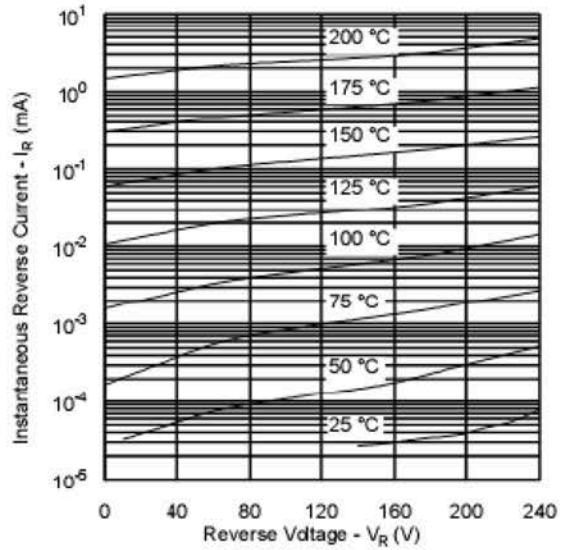
5. Rating and Characteristic Curves

(Tc=25°C Unless otherwise noted)

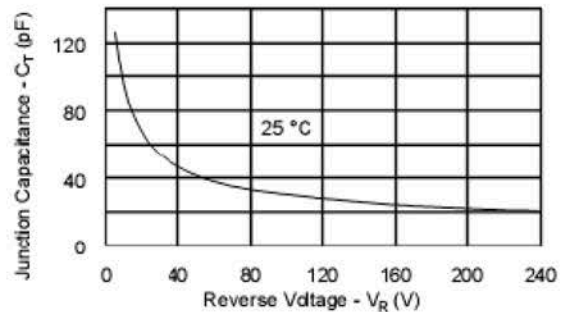
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



6. Packing Specification

<p>1) Tube : 50units</p>	<p>2) Inner Box: 20 tube(1000units)</p>
<p>3) Outer Box: 10 inner box (10,000units)</p>	

7. DESCRIPTION of BOX LABEL

	<p>TYPE: Q'TY: P/O NO: LOT NO:</p>
<p>1) Inner Box Label</p>	<p>2) Inner Box Label</p>
	<p>TYPE: Q'TY: P/O NO:</p>
<p>3) Outer Box Label</p>	<p>4) Outer Box Label</p>