

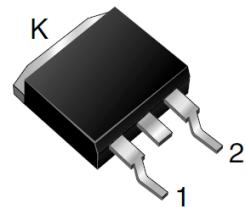


MBRB10200CT

GWch_mBarrier F YWIZYf

Features

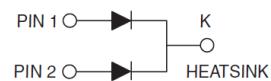
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- For surface mounted application
- Low forward voltage, high efficiency
- Guarding for over voltage protection
- For use in low voltage, high frequency inverters
- Free wheeling and polarity protection applications



CASE:TO-263 (D2PAK)

Mechanical Characteristics

- Case: Epoxy, Molded
- Weight: 1.4 grams (approximately)
- Finish: All external surfaces corrosion resistant and terminal leads are solderable
- Lead temperature for soldering purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube or tape reel packing 800/reel



Maximum Ratings and Electrical Characteristics (TC=25°C unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	MBRB10200CT	UNIT
Maximum repetitive peak reverse voltage			V _{RRM}	200	V
Working peak reverse voltage			V _{RWM}	200	V
Maximum DC blocking voltage			V _{DC}	200	V
Maximum average forward rectified current at T _c =105°C total device per diode			I _{F(AV)}	10 5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			I _{FSM}	125	A
Peak repetitive reverse current per leg at t _p =2.0us , 1KHz			I _{RRM}	0.5	A
Voltage rate of change (rated VR)			DV/dt	10000	V/us
Operating junction temperature range			T _J	-55 to+150	°C
Storage temperature range			T _{STG}	-55 to+150	°C
Maximum instantaneous forward voltage per leg	I _F =5A I _F =5A	T _c =25°C T _c =125°C	V _F	0.92 0.82	V
Maximum reverse current per leg at working peak Reverse voltage		T _J =25°C T _J =100°C	I _R	200 15	uA mA

Thermal Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Max	Unit
R _{θJC}	Thermal Resistance, Junction to Case per Leg	2.0	°C /W

Note:

1. Pulse test:300us pulse width, duty cycle=2%

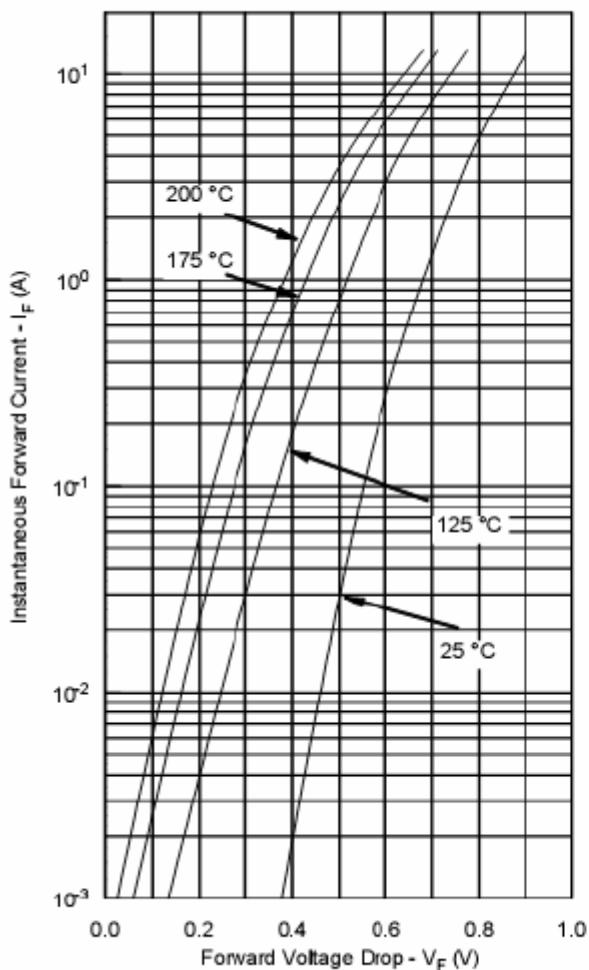


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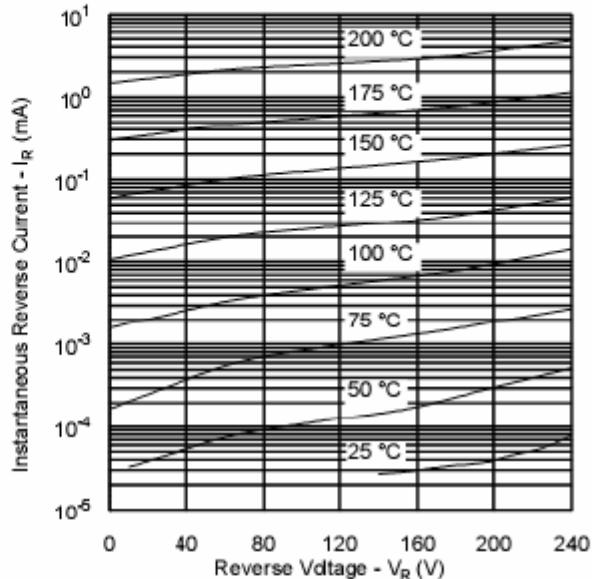
GWch_mBarrier F YWJYf

Rating and Characteristic Curves (Tc=25°C Unless otherwise noted)

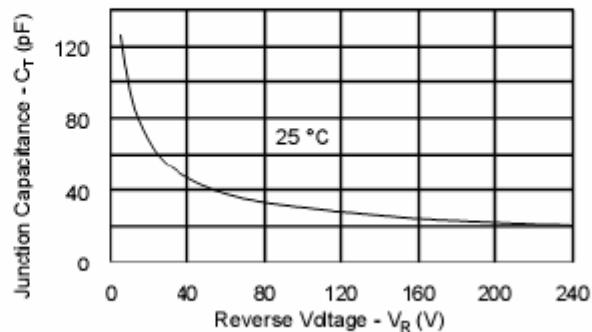
Typical Forward Characteristics



Typical Reverse Characteristics



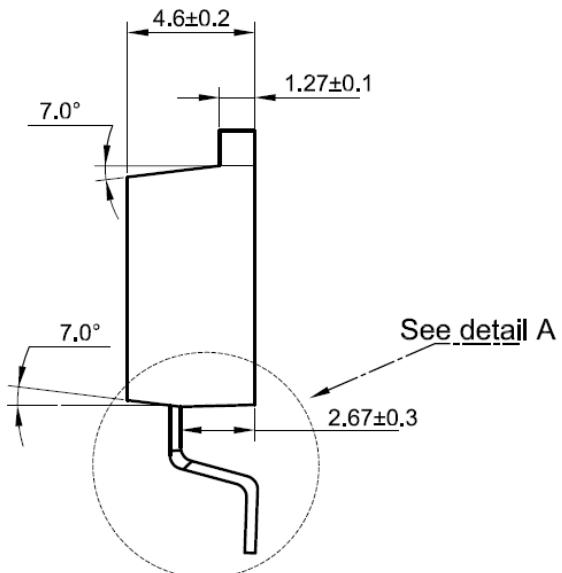
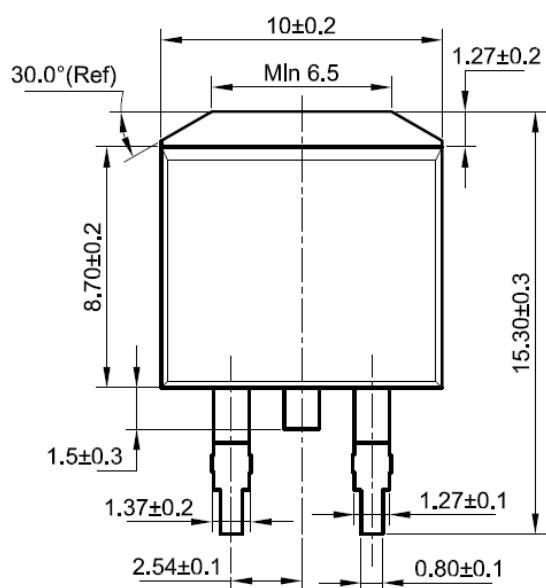
Typical Junction Capacitance



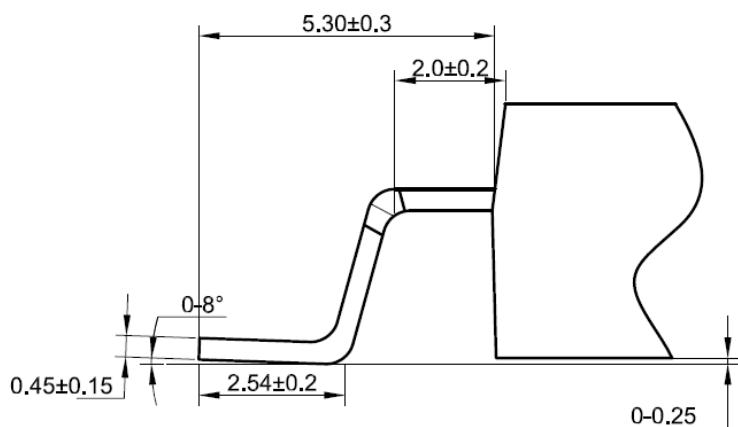
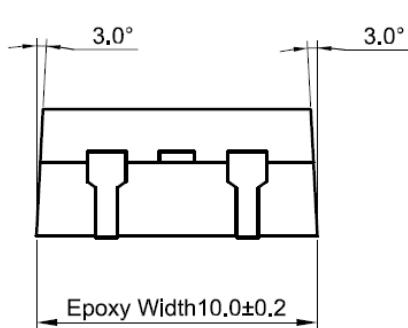


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GWch_mBarrier FYWZf

Package Outline (TO-263) UNIT:MM

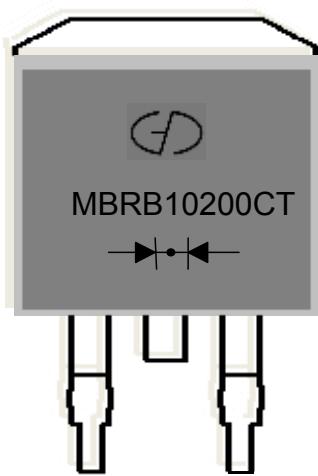


Detail A



Lead Frame Material : Copper Plating: Pure Tin Plating

Marking



1. Part Name : MBRB10200CT
2. Logo Mark: 
3. Polarity: 