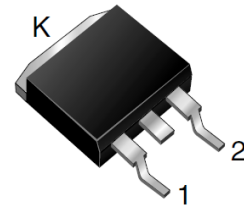


Features

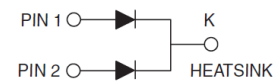
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- For surface mounted application
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Guarding for over voltage protection
- For use in low voltage, high frequency inverters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



CASE:TO-263 (D2PAK)

Mechanical Characteristics

- Case: Epoxy, Molded
- Weight: 1.4grams (approximately)
- Finish: All external surfaces corrosion resistant and terminal leads are solderable
- Lead Temperature for Soldering Purposes: 260°C Max.for10 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			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
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			IR	200 15	uA mA

Thermal Characteristics Ta=25°C unless otherwise noted

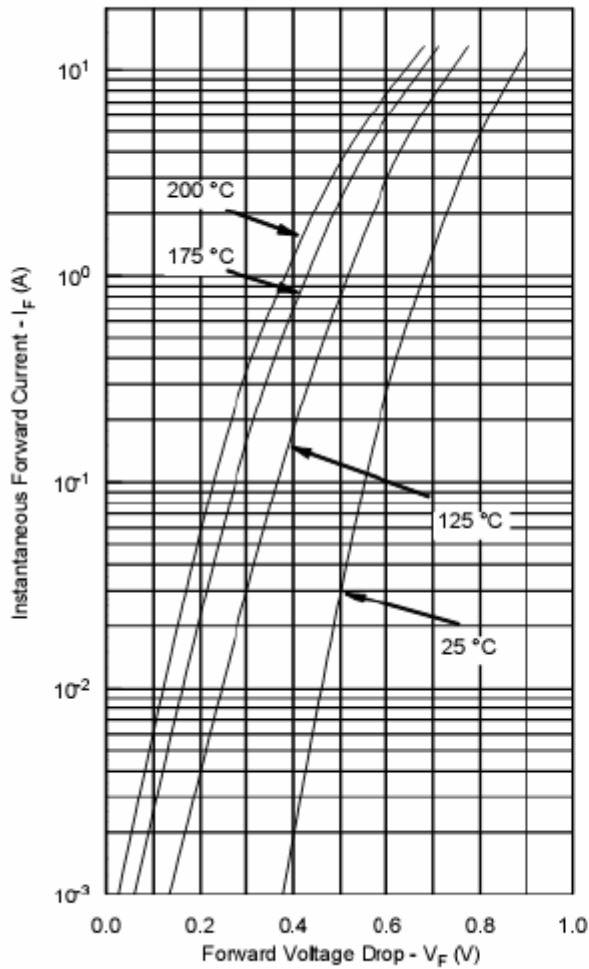
Symbol	Parameter	Max	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0	°C /W

Note:

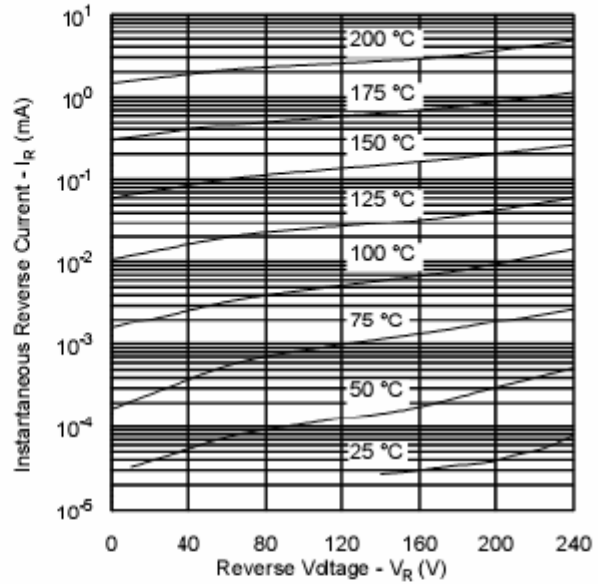
1. Pulse test:300us pulse width, duty cycle=2%

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

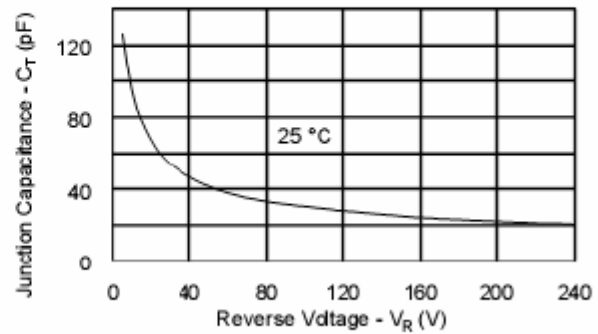
Typical Forward Characteristics



Typical Reverse Characteristics

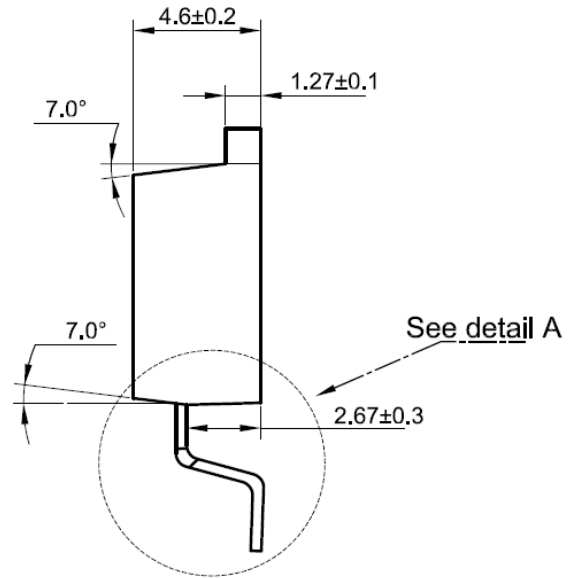
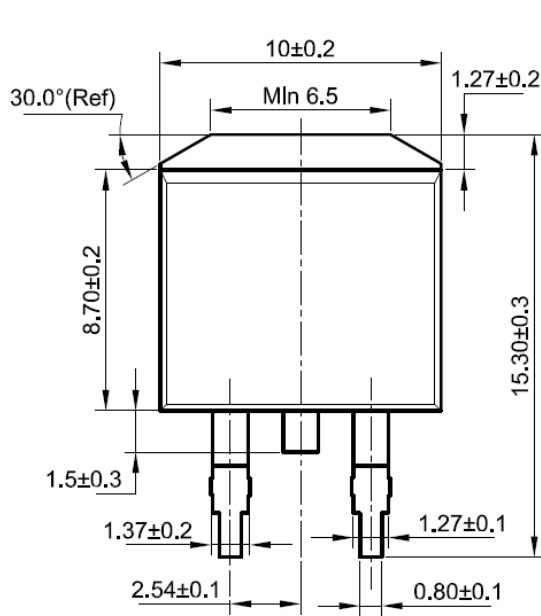


Typical Junction Capacitance

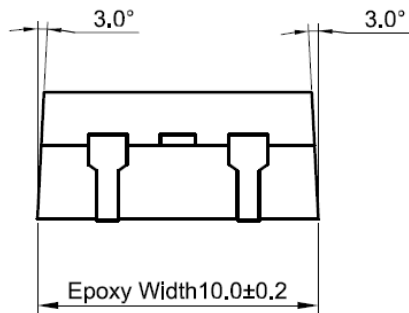
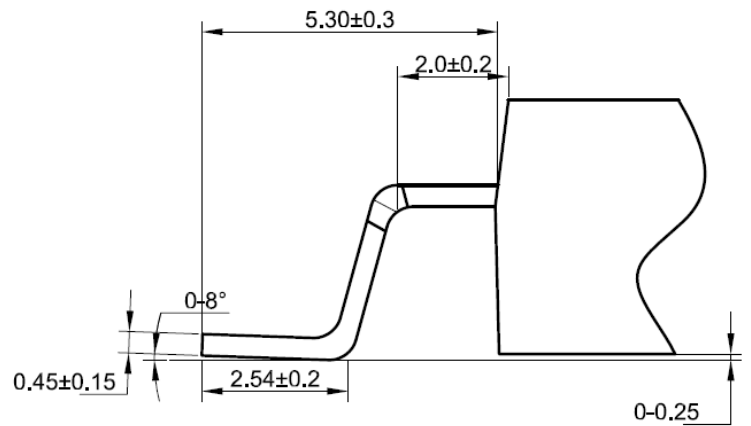


Package Outline (TO-263)

UNIT:mm

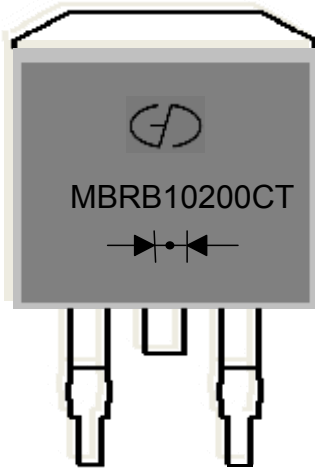


Detail A



Lead Frame Material : Copper Plating: Pure Tin Plating

Marking



1. Part Name : MBRB10200CT

2. Logo Mark: 

3. Polarity: 