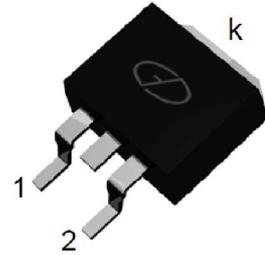


## Features

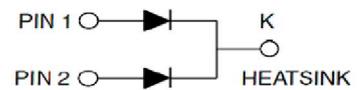
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Low forward voltage, high efficiency
- Guarding for over voltage protection



Package: TO-263 (D<sup>2</sup>PAK)

## Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.4grams (approximately)
- Lead temperature for soldering purposes: 260°C Max. for 10 sec
- 50 units per plastic tube or 800 per reel



## Maximum Ratings & Electrical Characteristics

(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage			V <sub>RRM</sub>	100	V
Working peak reverse voltage			V <sub>RWM</sub>	100	V
Maximum DC blocking voltage			V <sub>DC</sub>	100	V
Maximum average forward rectified current at T <sub>c</sub> =105°C total device per diode			I <sub>F(AV)</sub>	10 5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			I <sub>FSM</sub>	125	A
Peak repetitive reverse current per leg at t <sub>p</sub> =2.0us ,1KHz			I <sub>RRM</sub>	0.5	A
Voltage rate of change(rated V <sub>R</sub> )			Dv/dt	10000	V/us
Operating junction temperature range			T <sub>J</sub>	- 55 to +150	°C
Storage temperature range			T <sub>STG</sub>	- 55 to +150	°C
Maximum instantaneous forward voltage per leg	I <sub>F</sub> =5A I <sub>F</sub> =5A	T <sub>C</sub> =25°C T <sub>C</sub> =125°C	V <sub>F</sub>	0.85 0.75	V
Maximum reverse current per leg at working peak Reverse voltage		T <sub>J</sub> =25°C T <sub>J</sub> =100°C	I <sub>R</sub>	200 6	uA mA
<b>Thermal Characteristics T<sub>A</sub>=25°C unless otherwise noted</b>					
<b>Symbol</b>	<b>Parameter</b>		<b>Max.</b>		<b>Unit</b>
R <sub>θJC</sub>	Thermal Resistance, Junction to Case per Leg		2.0		°C /W

**Note:** Pulse test:300us pulse width, duty cycle=2%



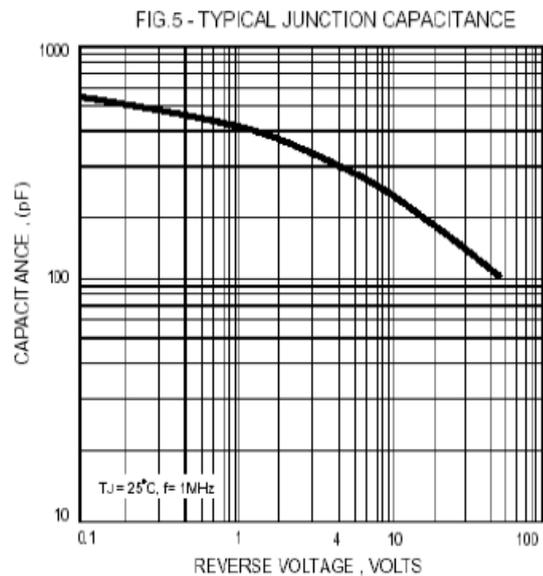
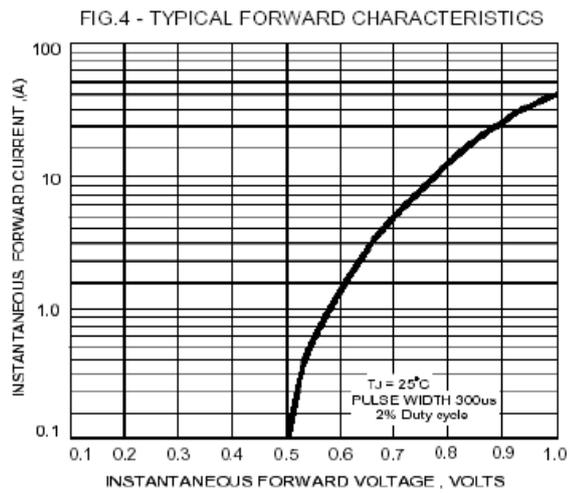
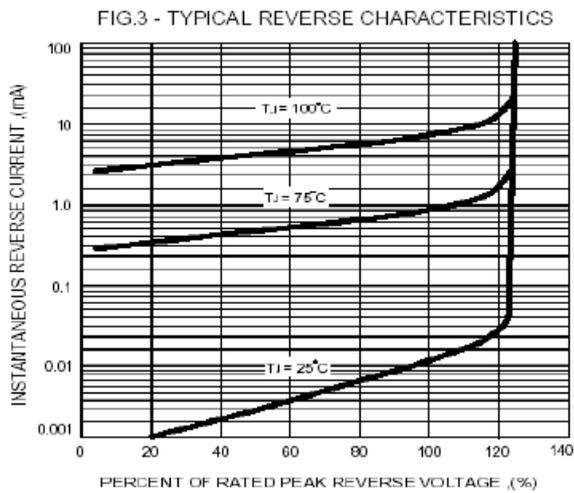
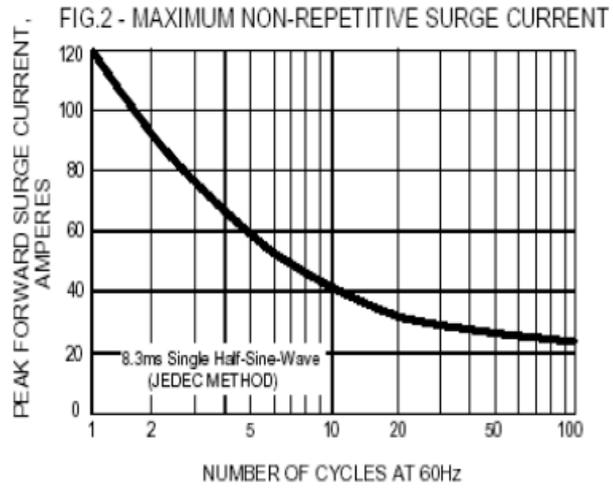
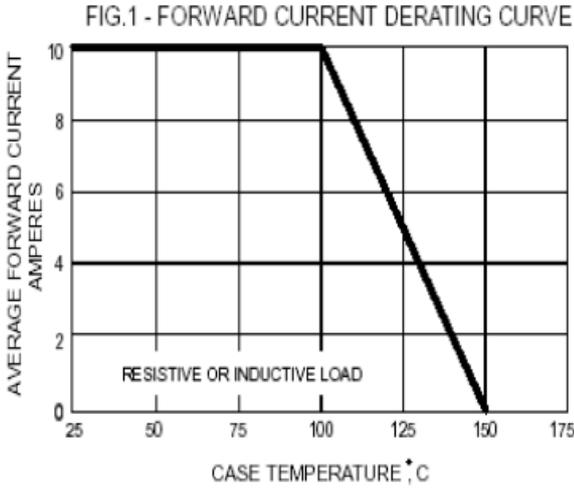
# MBRB10100CT

Schottky Barrier Rectifier

Reverse Voltage 100 Volts Forward Current 10 Amperes

## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)





# MBRB10100CT

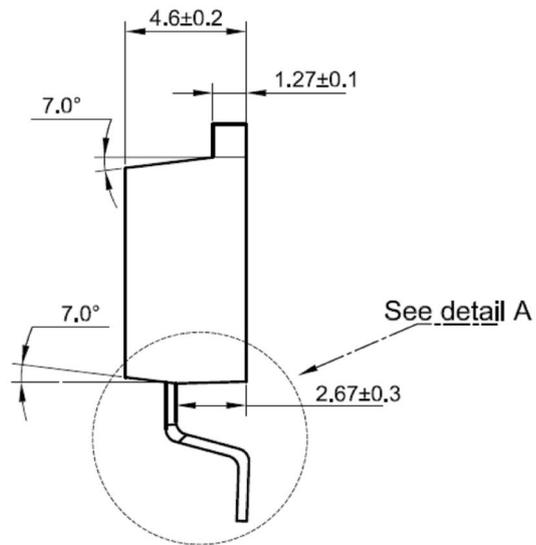
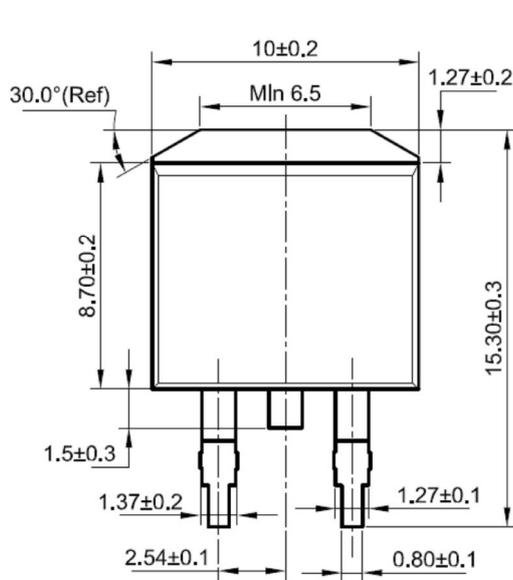
Schottky Barrier Rectifier

Reverse Voltage 100 Volts Forward Current 10 Amperes

## Package Outline Dimensions

### TO-263 (D<sup>2</sup>PAK)

Unit: millimeters



### Detail A

