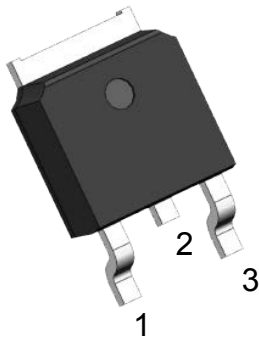


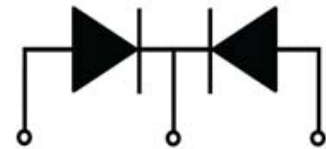
## 10A SCHOTTKY BARRIER RECTIFIER

### Features:

- Low power loss, high efficiency.  
High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- Metal silicon junction, majority carrier conduction.
- High current Capability, low forward voltage drop.
- Guard ring for over voltage protection.



Marking and pin assignment



1. Anode 2. Cathode 3. Anode

### Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum RMS Voltage	$V_{RMS}$	70	V
Maximum DC Blocking Voltage	$V_{R(DC)}$	100	V
Maximum Average Forward Current	$I_{F(AV)}$	10	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200	A
Maximum Forward Voltage @IF=10A	$V_F$	0.85	V
Maximum DC Reverse Current	$I_R$	Tj=25°C	0.05 mA
		Tj=125°C	20 mA
Maximum Operating Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-40~+150	°C

## Package Marking and Ordering Information

Part NO.	Marking	Package
MBRD10100CT	MBRD10100CT	TO-252

## Typical Characteristics

### RATING AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

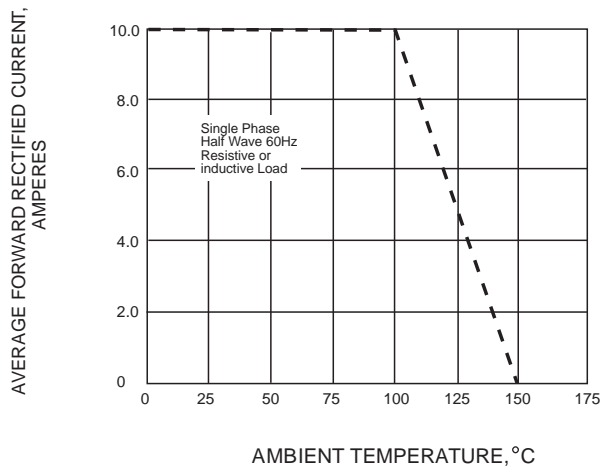


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

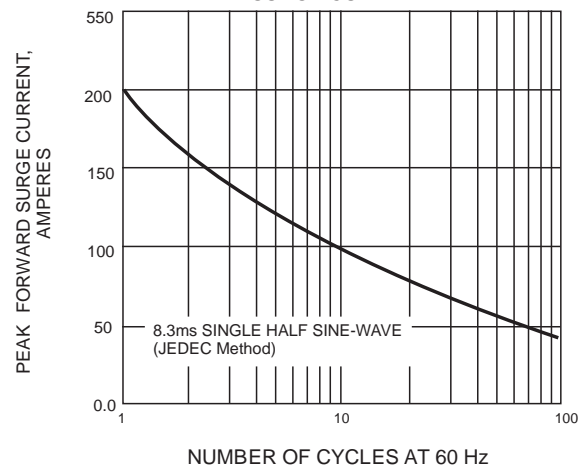


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

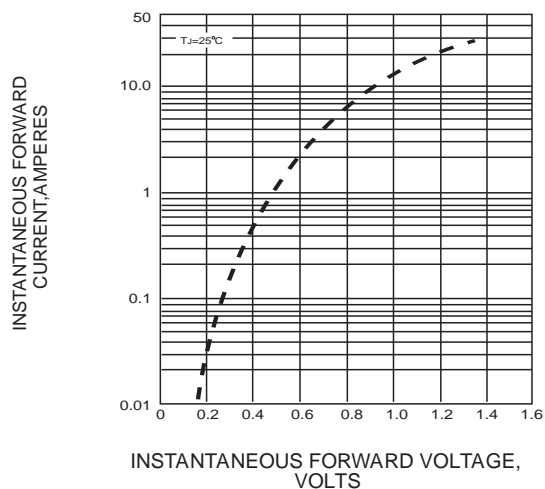


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

