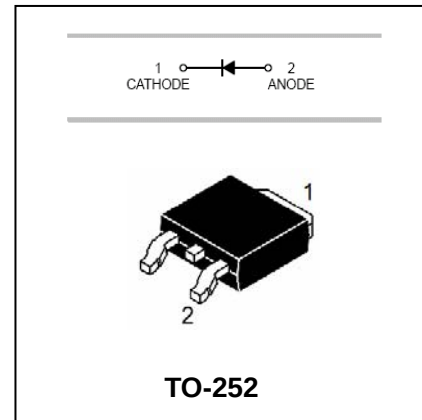


Dual Schottky Rectifiers

MBRD10150-MBRD10200

FEATURES

- 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 capacity,low forward voltage drop.
- Guard ring for over voltage protection.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBRD10150	MBRD10200	Unit
V_{RRM}	Peak Reverse Voltage	150	200	V
V_{RMS}	RMS Voltage	105	140	V
V_{DC}	DC Blocking Voltage	150	200	V
$I_{F(AV)}$	Average Forward Rectified Current @ $T_A=100^{\circ}C$	10		A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimosed on Rated Load	150		A
$R_{\theta JC}$	Typical Thermal Resistance (Note1)	2.2		$^{\circ}C/W$
T_j T_{stg}	Operating Junction and Storage Temperature Range	-55 to +150		$^{\circ}C$

Note:1. Thermal resistance junction to case.

ELECTRICAL CHARACTERISTICS@ $T_a=25^{\circ}C$ unless otherwise specified

Parameter	Symbol	Test conditions	MAX		UNIT
			MBRD10150	MBRD10200	
Forward Voltage	V_F (Note1)	$I_F=10A$, $T_A=25^{\circ}C$	0.90	0.95	V
Reverse Current	I_R	$V_R=V_{RRM}$, $T_A=25^{\circ}C$ $V_R=V_{RRM}$, $T_A=125^{\circ}C$	0.1 50		mA

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

Dual Schottky Rectifiers

MBRD10150-MBRD10200

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

FIG.1 – PEAK FORWARD SURGE CURRENT

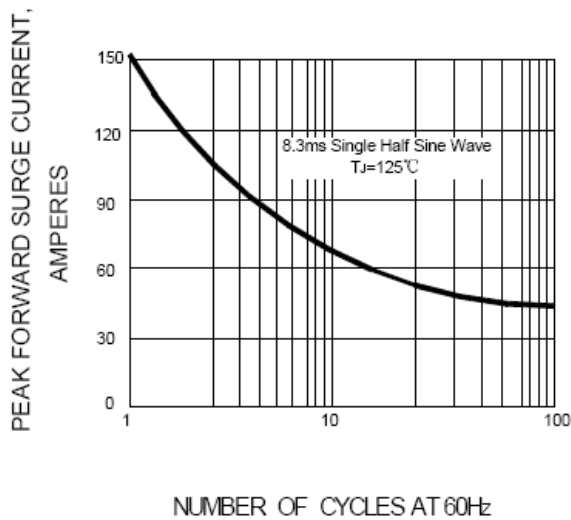


FIG.2 – FORWARD DERATING CURVE

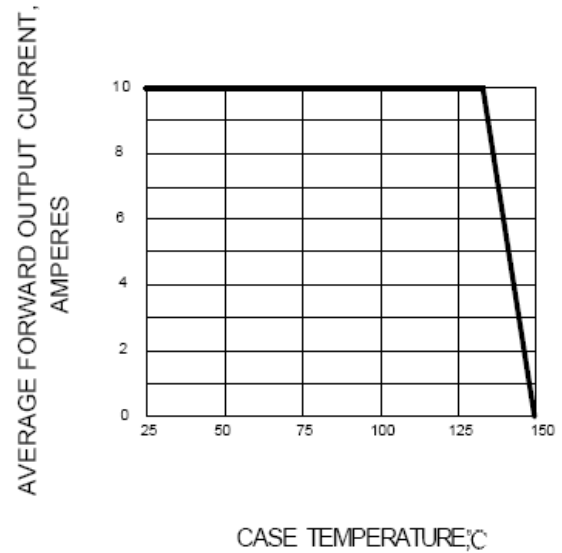


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

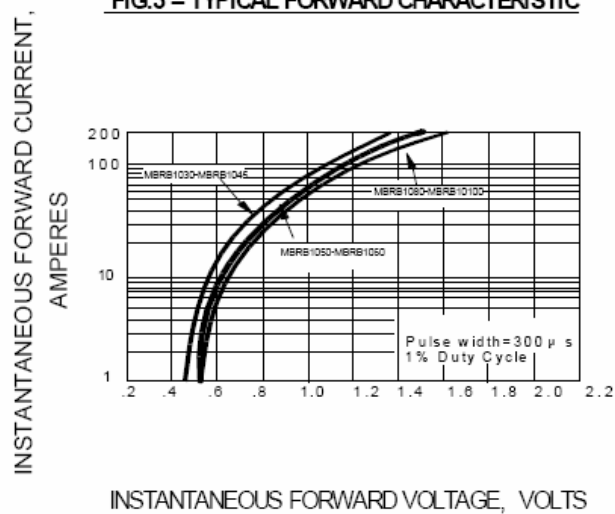
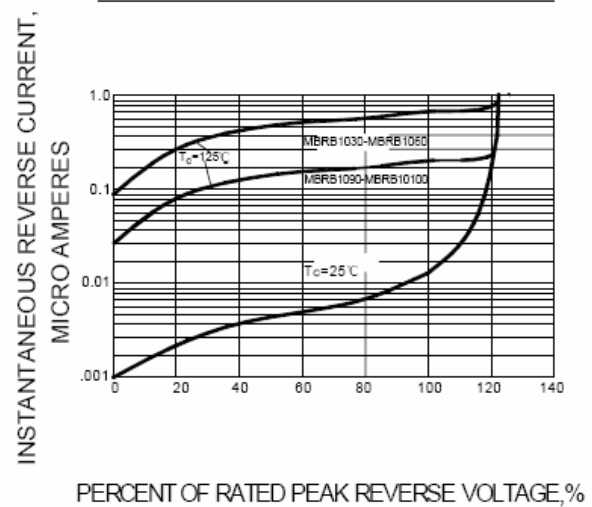


FIG.4 – TYPICAL REVERSE CHARACTERISTIC



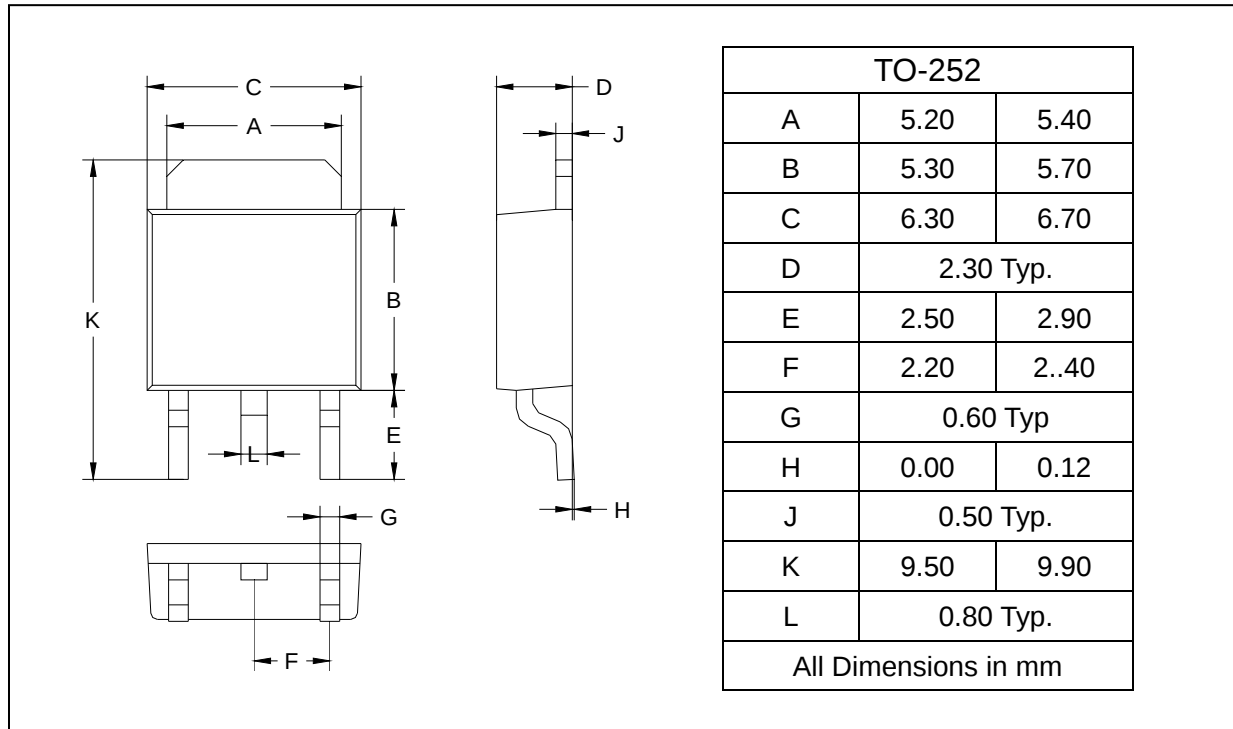
Dual Schottky Rectifiers

MBRD10150-MBRD10200

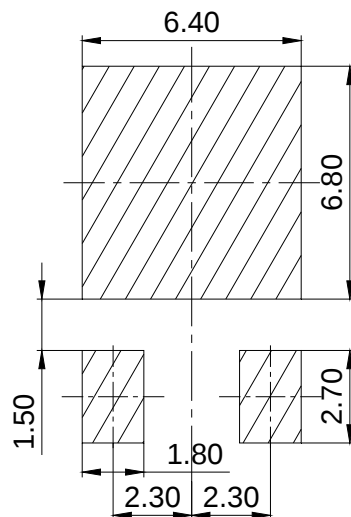
PACKAGE OUTLINE

Plastic surface mounted package

TO-252



SOLDERING FOOTPRINT



Unit:mm

Dual Schottky Rectifiers**MBRD10150-MBRD10200**

PACKAGE INFORMATION

Device	Package	Shipping
MBRD10150-MBRD10200	TO-252	80PCS/Tube
		2500PCS/Tape&Reel