



MBRD10100CT

Schottky Barrier Rectifier

Reverse Voltage 100 Volts Forward Current 10 Amperes

Features

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

Mechanical Data

- Case: Epoxy, Molded
- Weight: 0.4grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 2500 units per reel



Maximum Ratings & Electrical Characteristics

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

PARAMETER	TEST CONDITIONS		SYMBOL	MBRD10100CT	UNIT
Maximum repetitive peak reverse voltage			V_{RRM}	100	V
Working peak reverse voltage			V_{RWM}	100	V
Maximum DC blocking voltage			V_{DC}	100	V
Maximum average forward rectified current at $T_c=105^{\circ}\text{C}$ 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}	120	A
Peak repetitive reverse current per leg at $t_p=2.0\mu\text{s}$, 1KHz			I_{RRM}	1.0	A
Voltage rate of change (rated V_R)			DV/dt	10000	V/ μs
Operating junction temperature range			T_J	-55 to +150	$^{\circ}\text{C}$
Storage temperature range			T_{STG}	-55 to +150	$^{\circ}\text{C}$
Maximum instantaneous forward voltage per leg	$I_F=5\text{A}$ $I_F=5\text{A}$	$T_c=25^{\circ}\text{C}$ $T_c=125^{\circ}\text{C}$	V_F	0.85 0.75	V
Maximum reverse current per leg at working peak Reverse voltage			I_R	50 5	μA mA
Thermal Characteristics $T_A=25^{\circ}\text{C}$ unless otherwise noted					
Symbol	Parameter		TYP (TO-252)		Unit
R θ JC	Thermal Resistance, Junction to Case per Leg		3.5		$^{\circ}\text{C}/\text{W}$
R θ JA	Thermal Resistance, Junction to Ambient per Leg		62.5		$^{\circ}\text{C}/\text{W}$

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



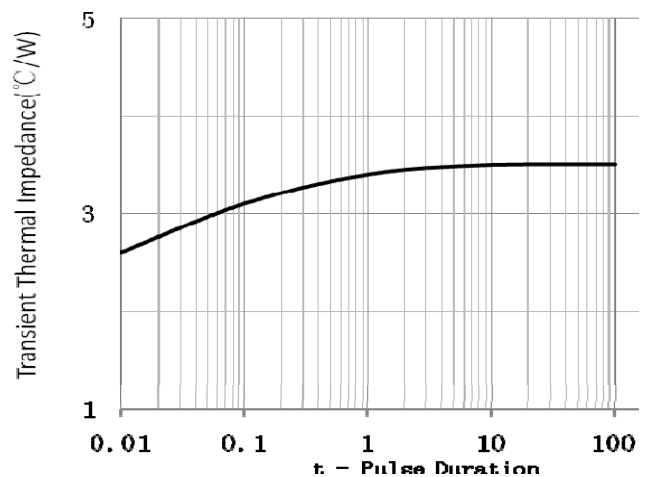
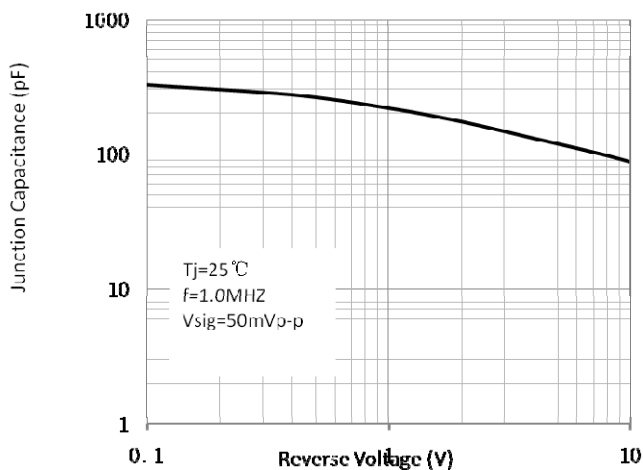
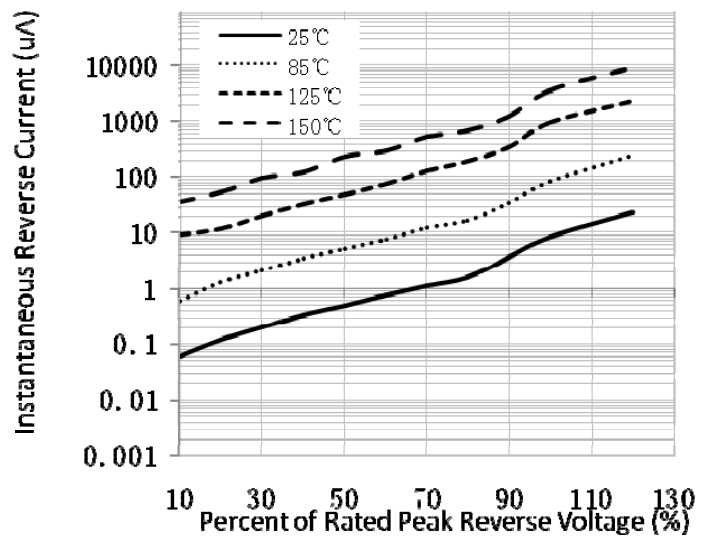
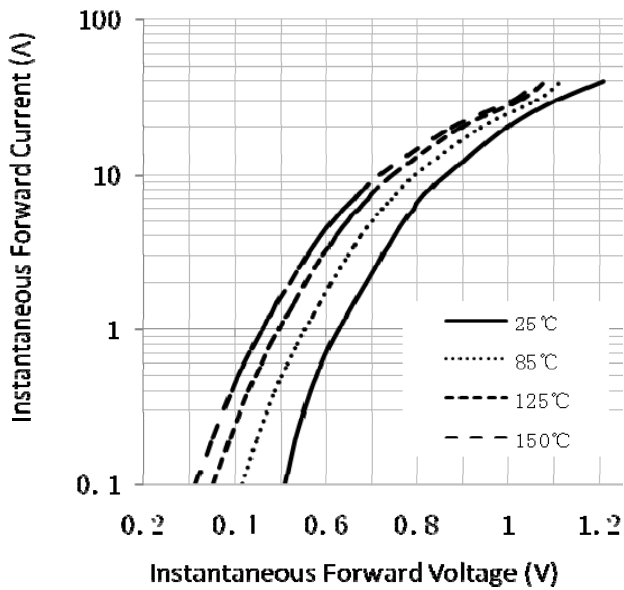
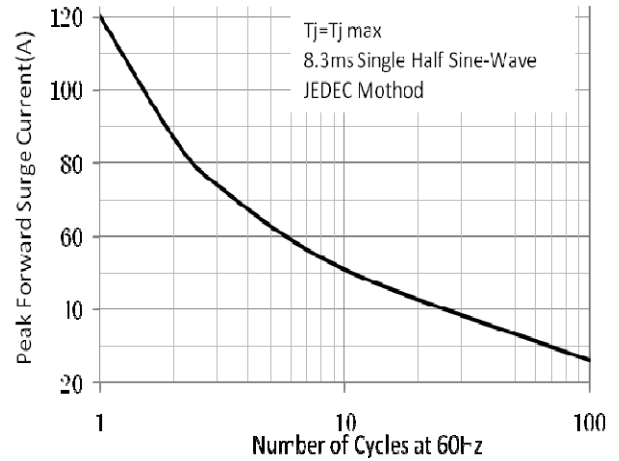
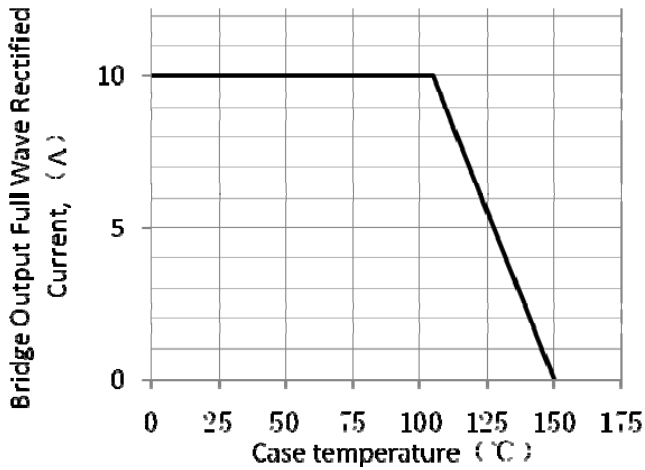
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Ratings and Characteristics Curves

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





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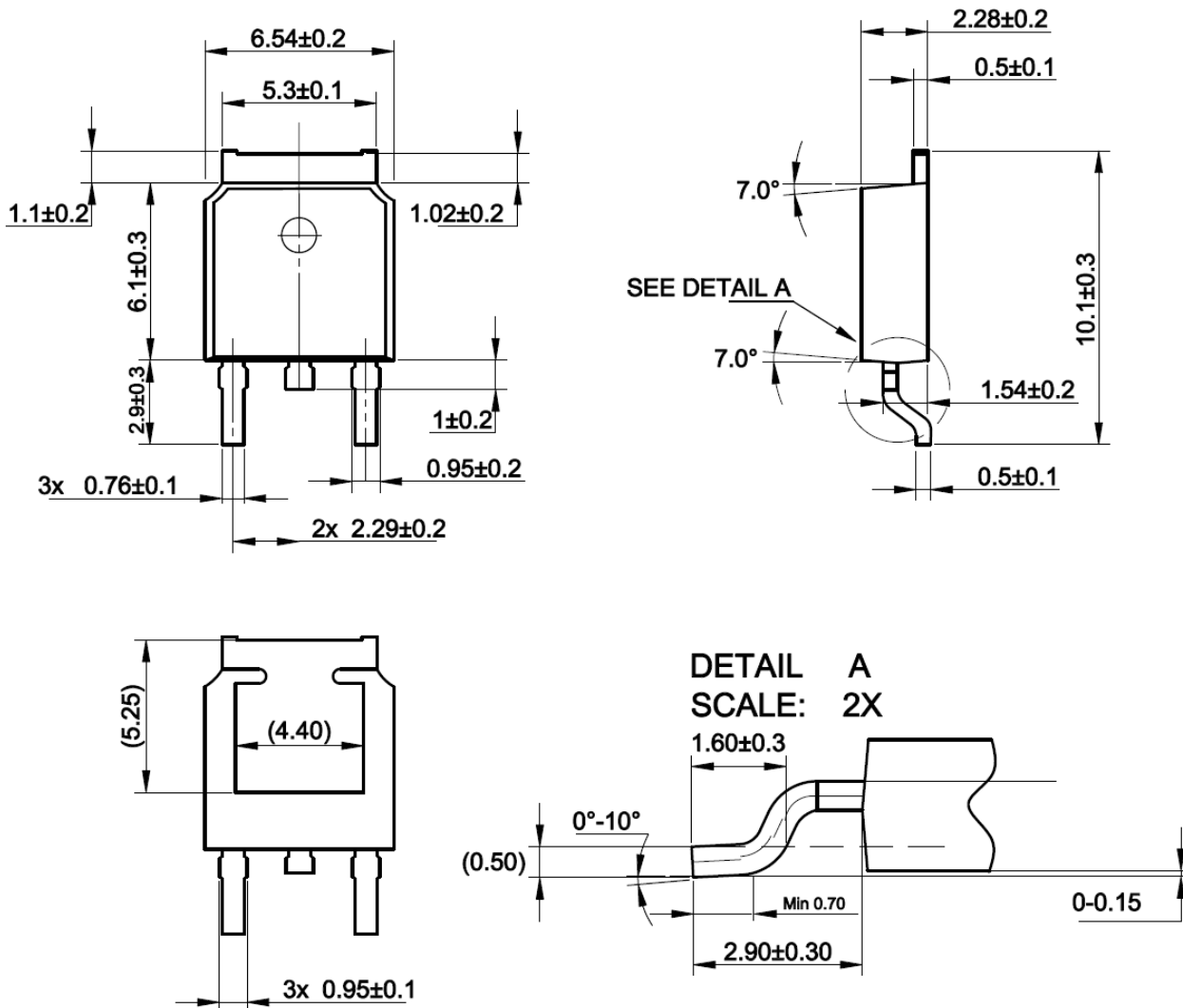
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Package Outline Dimensions

Unit: millimeters

TO-252(D-PAK)





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