



MBR(F)2060CT

Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 20 Amperes

Features

Low $V_F=0.53V$ at $I_F=5A$ ($25^\circ C$)

Low $V_F=0.63V$ at $I_F=10A$ ($25^\circ C$)

- 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



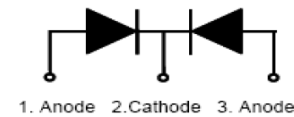
Package: ITO-220-AB



Package: TO-220-AB

Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: $260^\circ C$ Max. for 10 sec
- Shipped 50 units per plastic tube



Maximum Ratings & Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	SYMBOL	MBR(F)2060CT	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	60	V
Working peak reverse voltage		V_{RWM}	60	V
Maximum DC blocking voltage		V_{DC}	60	V
Maximum average forward rectified current at $T_c=105^\circ C$ total device per diode		$I_F(AV)$	20 10	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode		I_{FSM}	150	A
Peak repetitive reverse current per leg at $t_p=2.0\mu s$, 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	$^\circ C$
Storage temperature range		T_{STG}	-55 to +150	$^\circ C$
Isolation voltage (ITO-220-AB only) from terminal to heatsink $t = 1$ sec		V_{AC}	1500	V
Maximum instantaneous forward voltage per leg	$I_F=10A$ $I_F=10A$	$T_C=25^\circ C$ $T_C=125^\circ C$	V_F 0.68 0.63	V
Maximum reverse current per leg at working peak Reverse voltage		$T_J=25^\circ C$ $T_J=100^\circ C$	I_R 100 10	μA mA

Thermal Characteristics $T_A=25^\circ C$ unless otherwise noted

Symbol	Parameter	TYP (TO-220-AB)	TYP (ITO-220-AB)	Unit
R θ JC	Thermal Resistance, Junction to Case per Leg	2.0	4.0	$^\circ C/W$
R θ JA	Thermal Resistance, Junction to Ambient per Leg	62.5	62.5	$^\circ C/W$

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)

FIG.1- FORWARD CURRENT DERATING CURVE

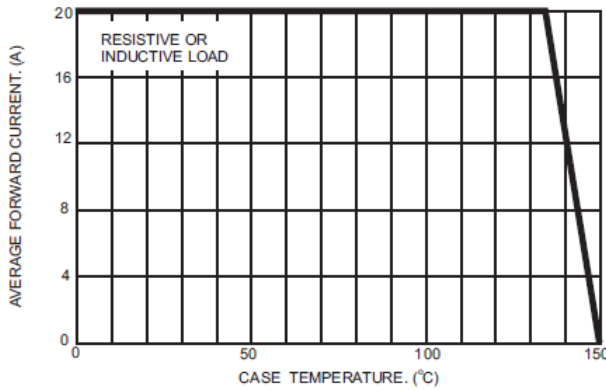


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

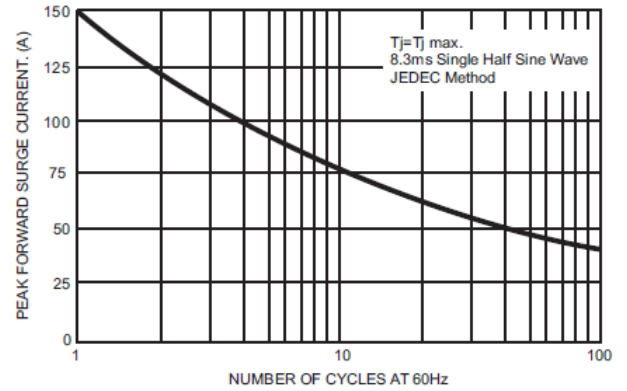


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

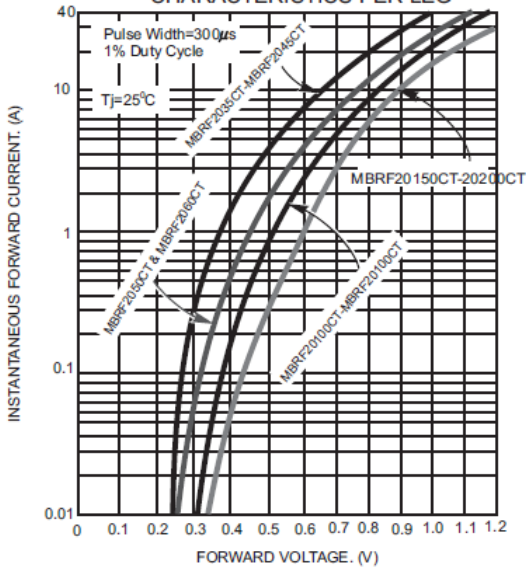


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

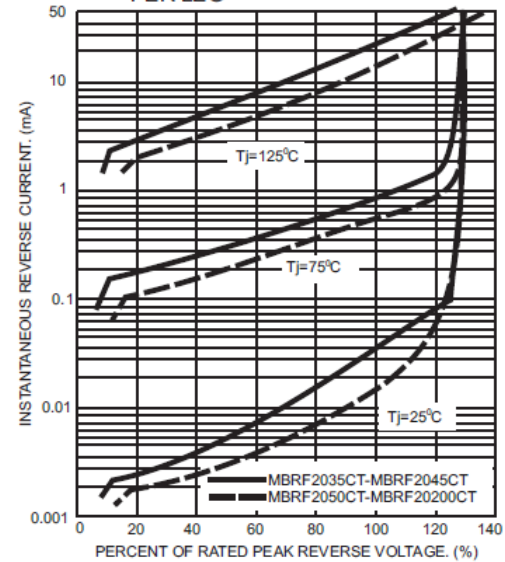


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

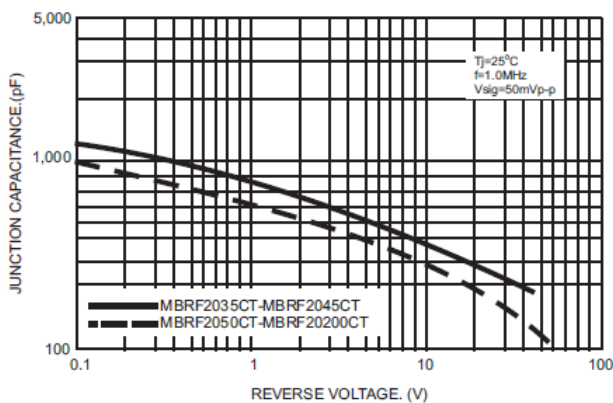
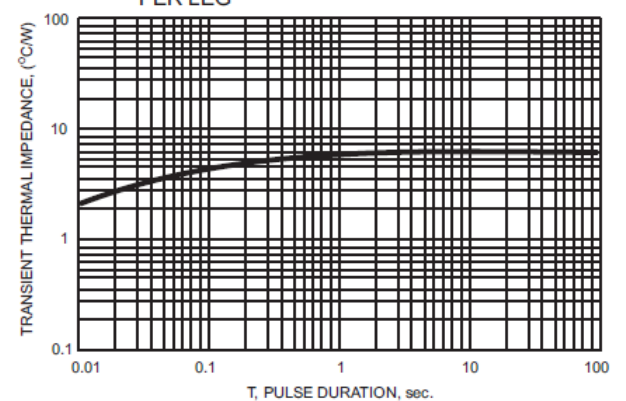


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG





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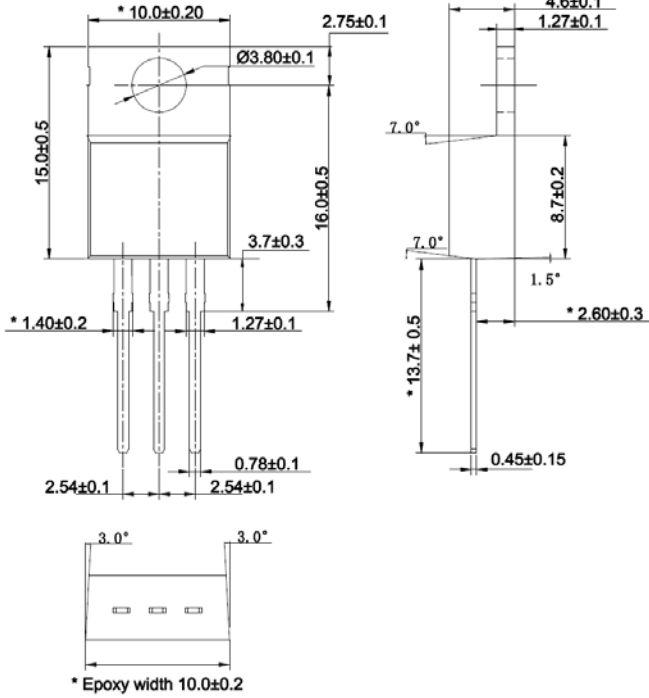
Schottky Barrier Rectifier

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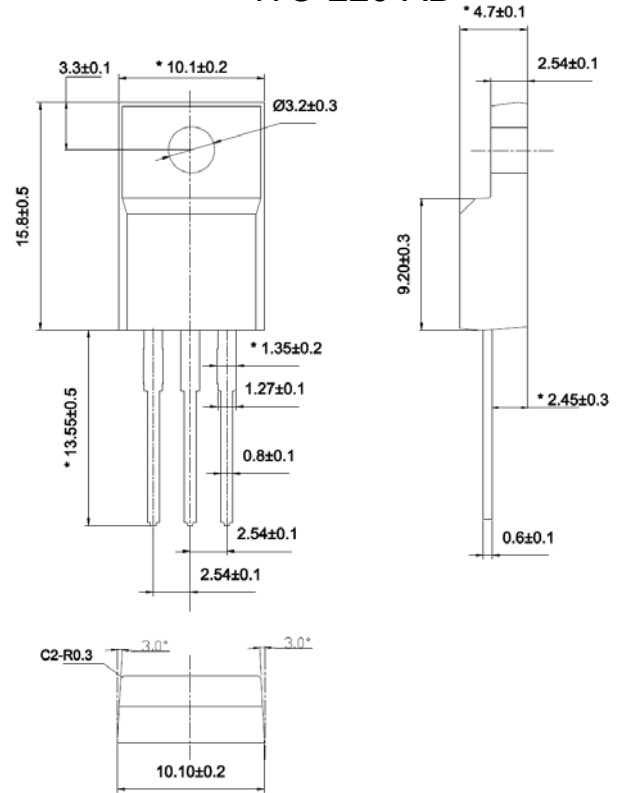
Package Outline Dimensions

Unit: millimeters

TO-220-AB



ITO-220-AB





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