MBR(F)1040CT

Schottky Barrier Rectifier

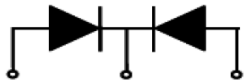
Reverse Voltage 40 Volts Forward Current 10 Amperes

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

Package: ITO-220-AB

Package: TO-220-AB



1. Anode 2.Cathode 3. Anode

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°C Max. for 10 sec
- Shipped 50 units per plastic tube

Maximum Ratings & Electrical Characteristics

(T_A=25℃ unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	MBR(F)1040CT	UNIT
Maximum repetitive peak reverse voltage			V_{RRM}	40	V
Working peak reverse voltage			V_{RWM}	40	V
Maximum DC blocking voltage			V_{DC}	40	V
Maximum average forward rectified current at T_C=105°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=2.0us ,1KHz			I_{RRM}	1.0	A
Voltage rate of change（rated V_R）			$D_{V/dt}$	10000	V/us
Operating junction temperature range			T_J	—55 to+150	°C
Storage temperature range			T_{STG}	—55 to+150	°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=5A I_F=5A	T_C=25℃ T_C=125℃	V_F	0.55 0.50	V
Maximum reverse current per leg at working peak Reverse voltage		T_J=25℃ T_J=100°C	I_R	200 15	uA mA

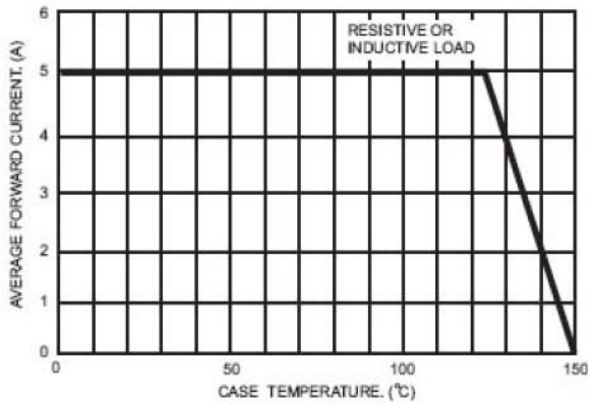
Thermal Characteristics T_A=25℃ unless otherwise noted

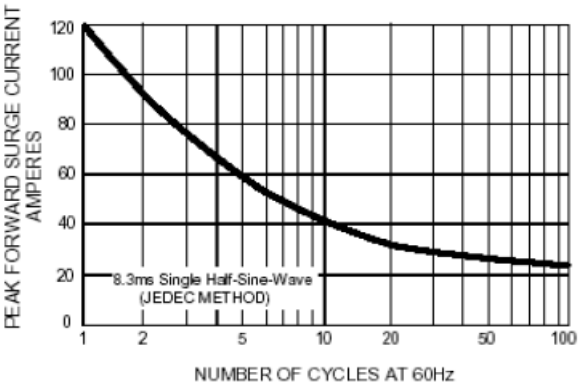
Symbol	Parameter	TYP（TO-220-AB）	TYP（ITO-220-AB）	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.5	4.5	°C /W
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5	62.5	°C /W

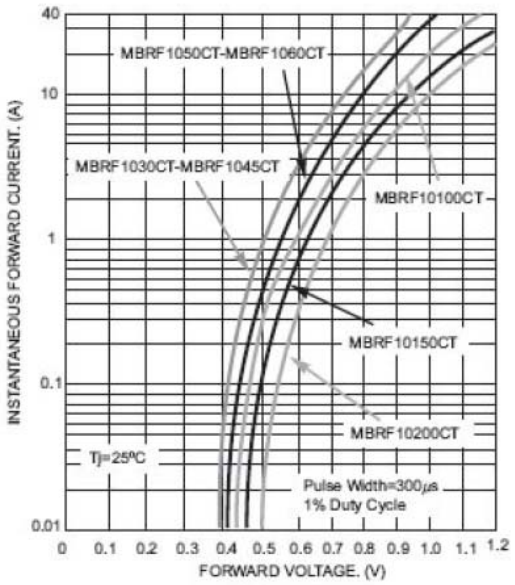
Note：Pulse test:300us pulse width, duty cycle=2%

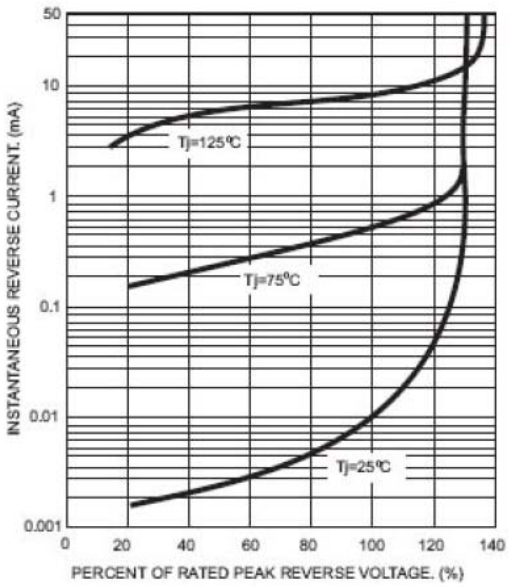
Ratings and Characteristics Curves

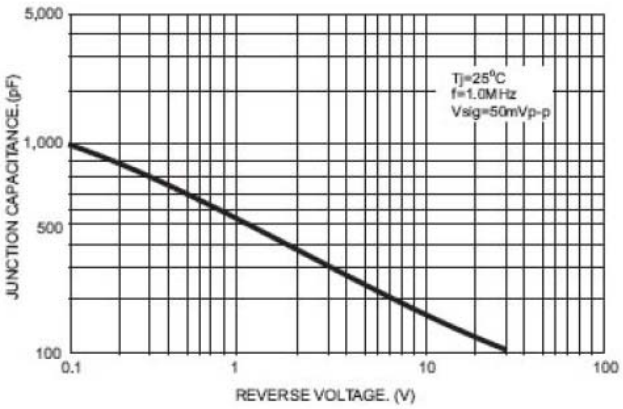
(T_A = 25℃ unless otherwise noted)

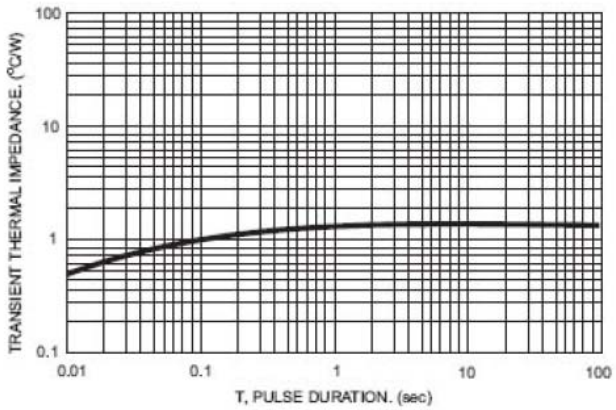








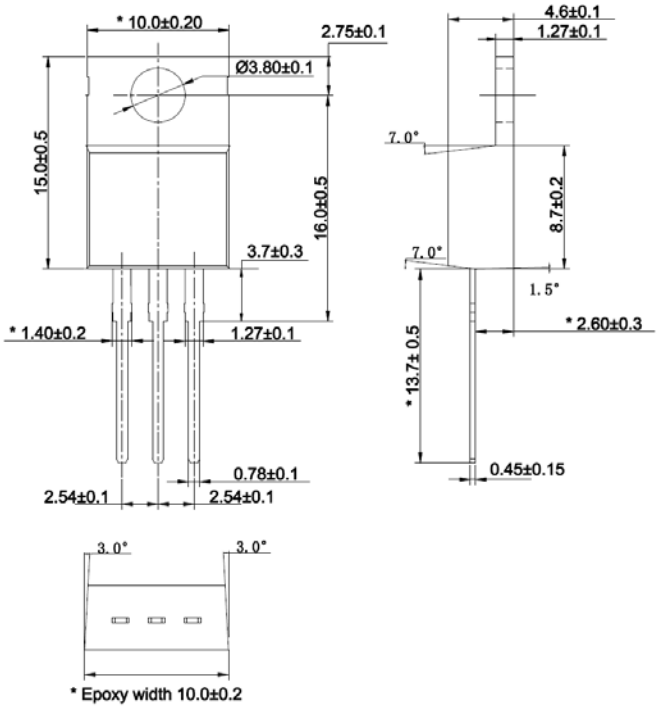




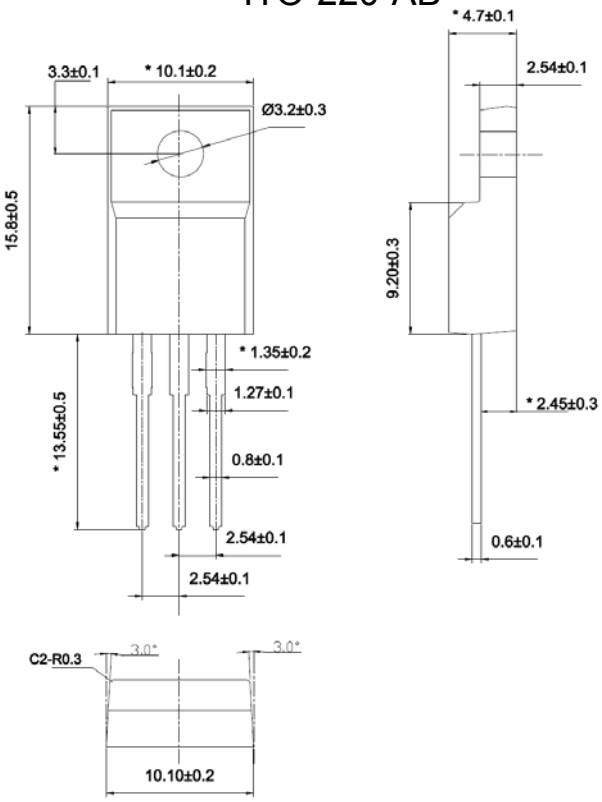
Package Outline Dimensions

Unit: millimeters

TO-220-AB



ITO-220-AB



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