

# Zibo Seno Electronic Engineering Co., Ltd.



## MURF1010CT-MURF1060CT



### 10.0A GLASS PASSIVATED SUPER FAST RECTIFIER

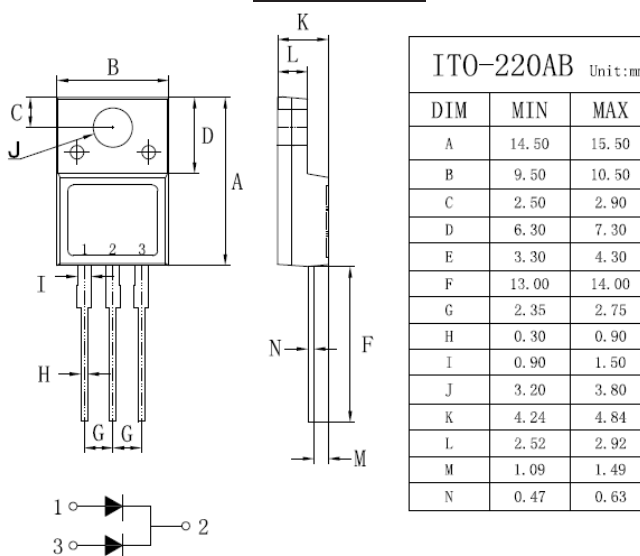
#### Features

- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

#### Mechanical Data

- Case: ITO-220AB, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.81 grams (approx.)
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version**

#### ITO-220AB



#### Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	SYMBOL	MURF 1010CT	MURF 1020CT	MURF 1030CT	MURF 1040CT	MURF 1050CT	MURF 1060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	100	200	300	400	500	600	V
Maximum Average Forward Rectified Current $T_c=100^{\circ}\text{C}$	IF(AV)	10.0						A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	90						A
Maximum Instantaneous Forward Voltage @ 5.0 A	VF	1.0		1.3		1.7		V
Maximum DC Reverse Current @ $T_J=25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_J=125^{\circ}\text{C}$	IR	10.0						uA
		250						uA
Maximum Reverse Recovery Time (Note 1)	Trr	35						nS
Typical junction Capacitance (Note 2)	CJ	170			130			pF
Typical Thermal Resistance (Note 3)	RθJC	3.5						$^{\circ}\text{C}/\text{W}$
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150						$^{\circ}\text{C}$

Note: 1. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $IRR = 0.25\text{A}$ .  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

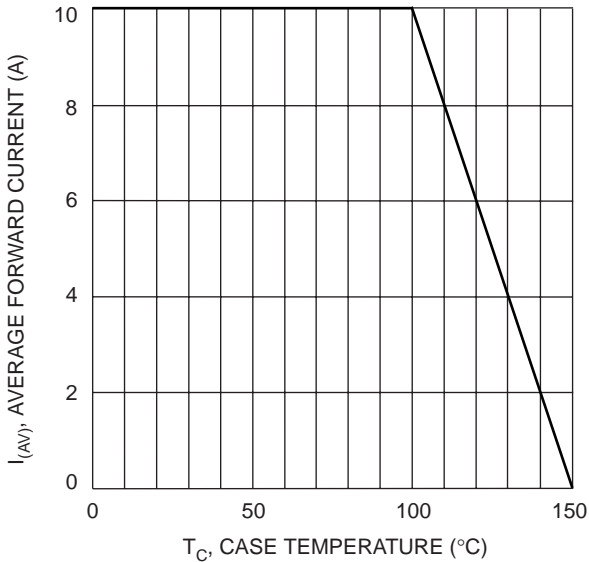


Fig. 1 Forward Current Derating Curve

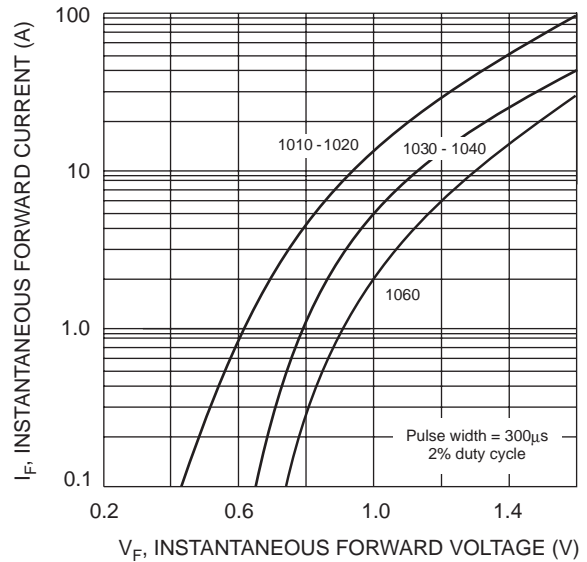


Fig. 2 Typical Forward Characteristics

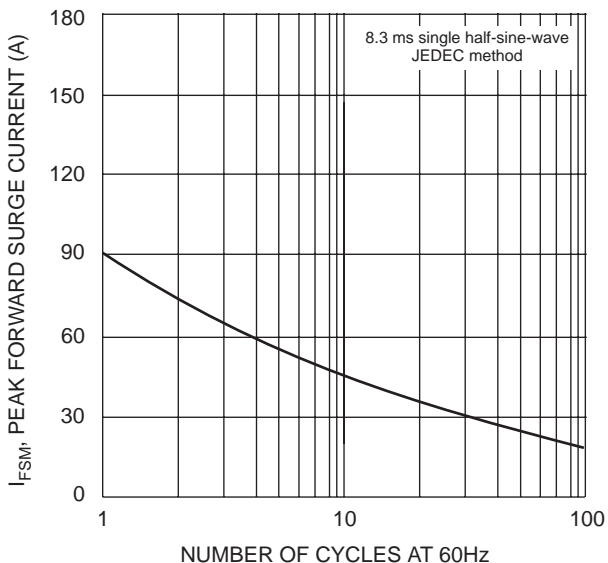


Fig. 3 Max Non-Repetitive Surge Current

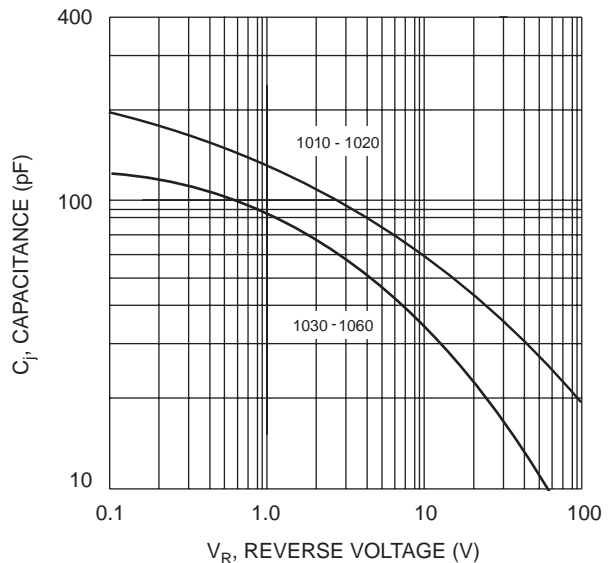


Fig. 4 Typical Junction Capacitance