Zibo Seno Electronic Engineering Co., Ltd.

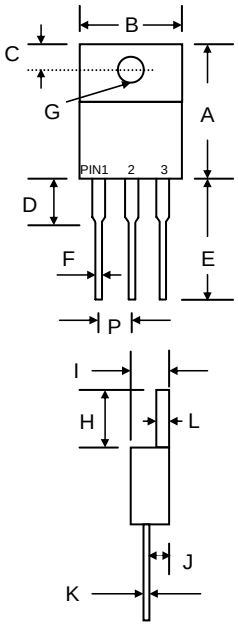
淄博圣诺

SFF1010CT-SFF1060CT

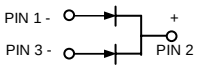
10.0A GLASS PASSIVATED SUPER FAST RECTIFIER

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-O



ITO-220AB		
Dim	**Min**	**Max**
A	14.50	15.50
B	9.50	10.50
C	2.55	2.90
D	3.30	4.30
E	13.00	14.00
F	0.30	0.90
G	3.00 Ø	3.80 Ø
H	6.30	7.30
I	4.20	4.80
J	2.50	2.90
K	0.47	0.75
L	2.50	3.10
P	2.35	2.75
All Dimensions in mm		



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**

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characterisic	SYMBOL	SFF 1010CT	SFF 1020CT	SFF 1030CT	SFF 1040CT	SFF 1050CT	SFF 1060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	V
Maximum RMS Voltage	V_{RMS}	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	V_{DC}	100	200	300	400	500	600	V
Maximum Average Forward Rectified Current T_C=100°C	$I_{F(AV)}$	10.0						A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	90						A
Maximum Instantaneous Forward Voltage @ 5.0 A	V_F	1.0			1.3	1.7		V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=125°C	I_R	10.0 250						uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35						nS
Typical junction Capacitance (Note 2)	C_J	170				130		pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	3.5						°CW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150						°C

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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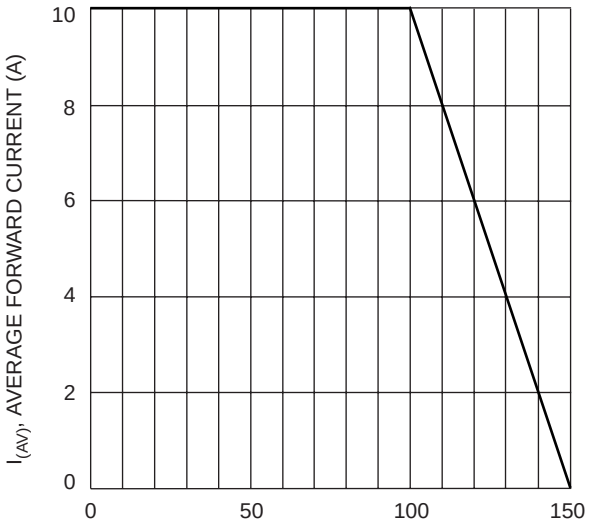


Fig. 1 Forward Current Derating Curve

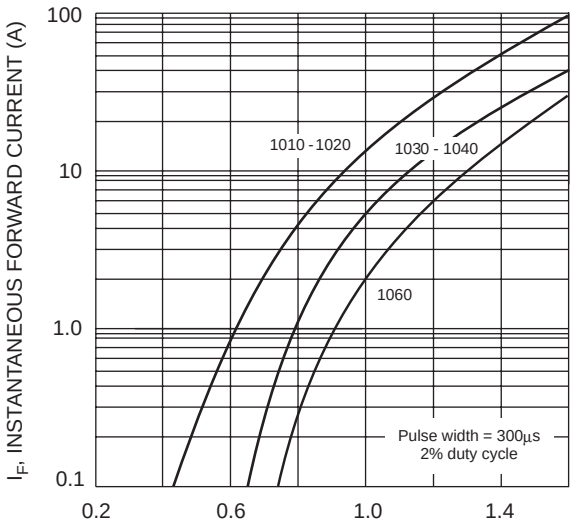


Fig. 2 Typical Forward Characteristics

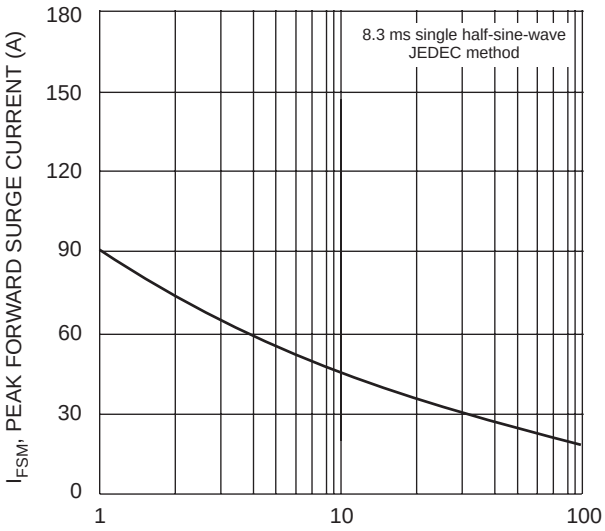


Fig. 3 Max Non-Repetitive Surge Current

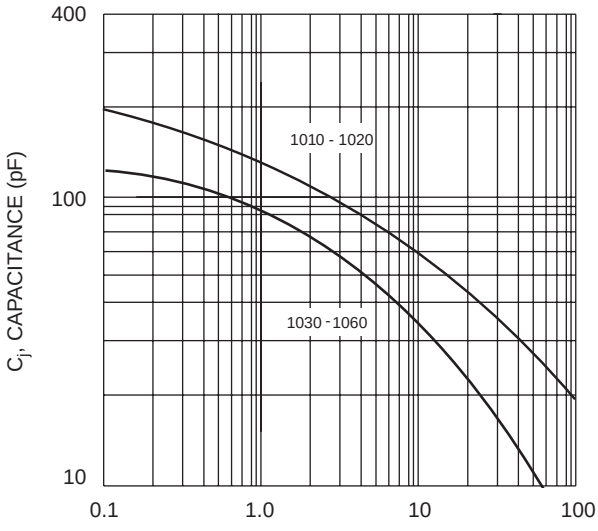


Fig. 4 Typical Junction Capacitance

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