Zibo Seno Electronic Engineering Co., Ltd.

淄博圣诺

SFF1010 – SFF1060

10.0A GLASS PASSIVATED SUPERFAST RECTIFIER

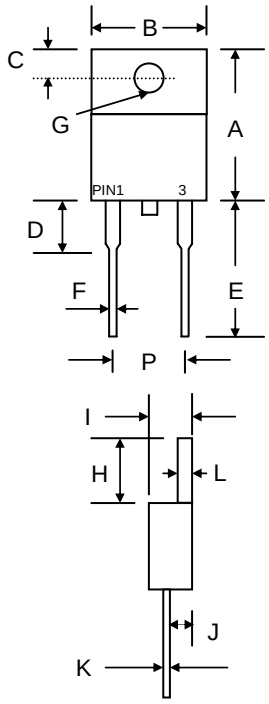
Features

- 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

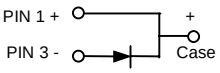
Mechanical Data

- Case: ITO-220AC, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version**

ITO-220AC



ITO-220AC		
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	0.45	0.70
L	2.50	3.10
P	4.88	5.28
All Dimensions in mm		



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%.

Characteristic	Symbol	SFF 1010	SFF 1020	SFF 1030	SFF 1040	SFF 1050	SFF 1060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	200	300	400	500	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	210	280	350	420	V
Average Rectified Output Current @T_C = 100°C	I_O	10.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	90						A
Forward Voltage @I_F= 10.0A	V_{FM}	1.0		1.3		1.7		V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	2.0 400						μA
Reverse Recovery Time (Note 1)	t_{rr}	35						nS
Typical Junction Capacitance (Note 2)	C_j	200						pF
Operating 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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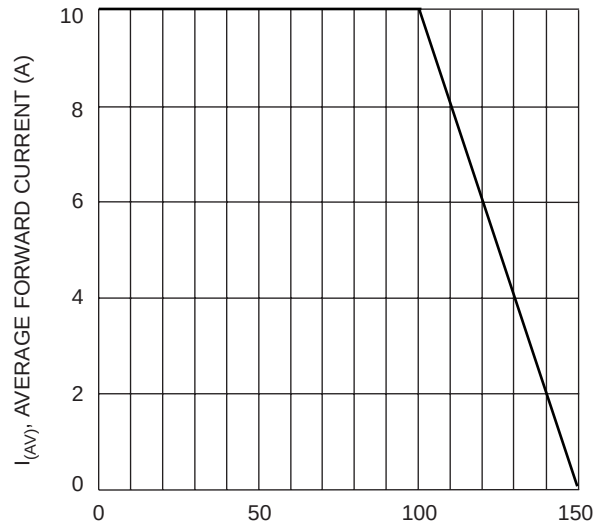


Fig. 1 Forward Current Derating Curve

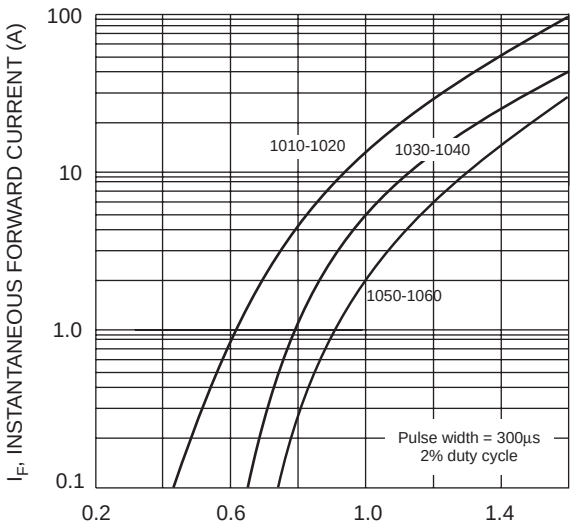


Fig. 2 Typical Forward Characteristics

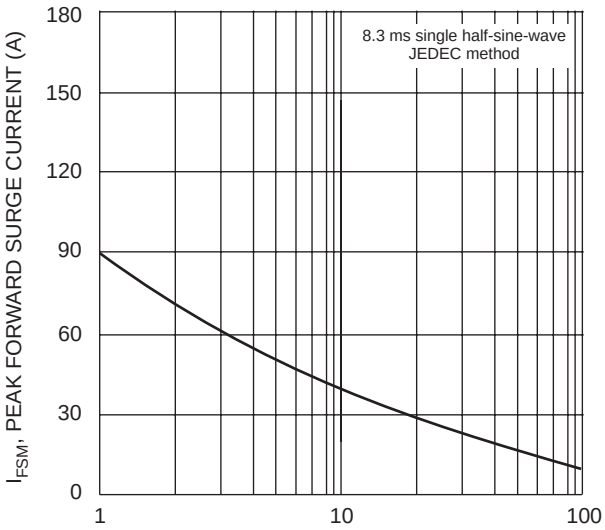


Fig. 3 Max Non-Repetitive Surge Current

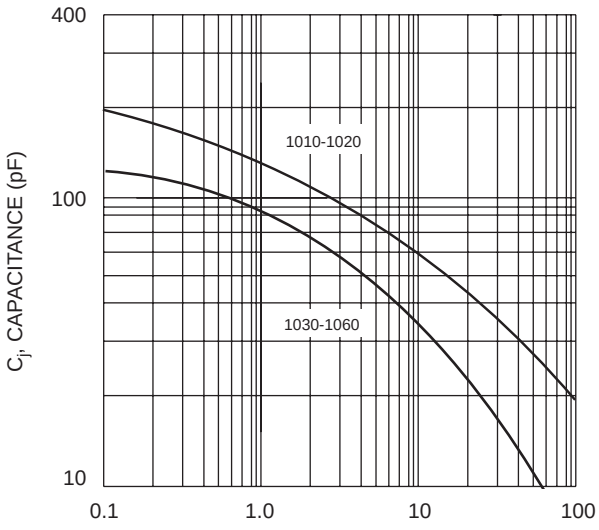
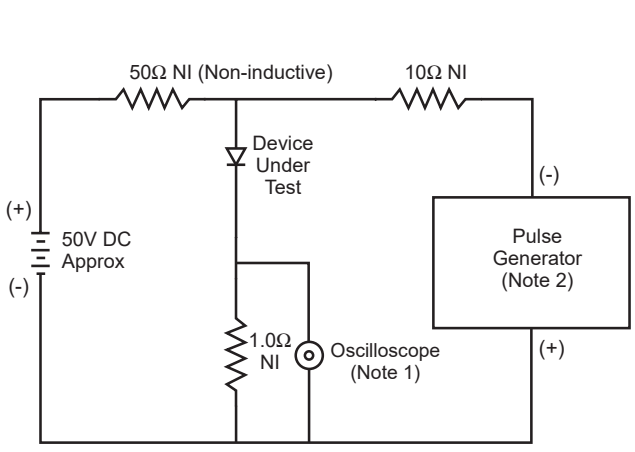
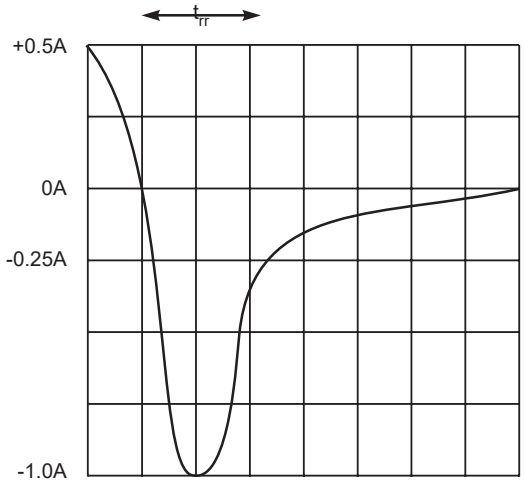


Fig. 4 Typical Junction Capacitance





Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
2. Rise Time = 10ns max. Input Impedance = 50Ω.

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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