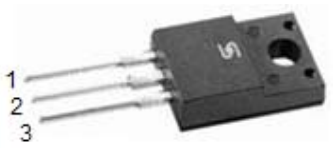
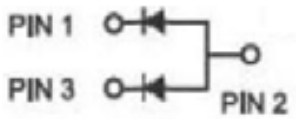
Isolated Glass Passivated Super Fast Rectifier

FEATURES

- High efficiency, low VF
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



ITO-220AB



Pb-Free

RoHS COMPLIANT

MECHANICAL DATA

Case：ITO-220AB

Molding compound, UL flammability classification rating 94V-0
Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant

Terminal：Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 1A whisker test

Polarity：As marked

Mounting torque：5 in-lbs maximum

Weight：1.7 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)						
PARAMETER	SYMBOL	SFF 2004 GA	SFF 2005 GA	SFF 2006 GA	SFF 2008 GA	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	140	210	280	420	V
Maximum DC blocking voltage	V_{DC}	200	300	400	600	V
Maximum average forward rectified current	$I_{F(AV)}$	20				A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	150				A
Maximum instantaneous forward voltage (Note 1) IF= 10 A	V_F	0.975	1.3		1.7	V
Maximum reverse current @ rated VR T_J=25 ℃	I_R	10				uA
T_J=125 ℃		400				
Maximum reverse recovery time (Note 2)	Trr	35				nS
Typical junction capacitance (Note 3)	Cj	90				pF
Typical thermal resistance	$R_{\theta JC}$	3.1				^{O}C/W
Operating junction temperature range	T_J	- 55 to + 150				^{O}C
Storage temperature range	T_{STG}	- 55 to + 150				^{O}C

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
SFF200xGA (Note 1)	C0	Suffix "G"	ITO-220AB	50 / Tube

Note 1: "xx" defines voltage from 200V (UGF2004GA) to 600V (UGF2008GA)

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
SFF2004GA C0	SFF2004GA	C0		
SFF2004GA C0G	SFF2004GA	C0	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25℃ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

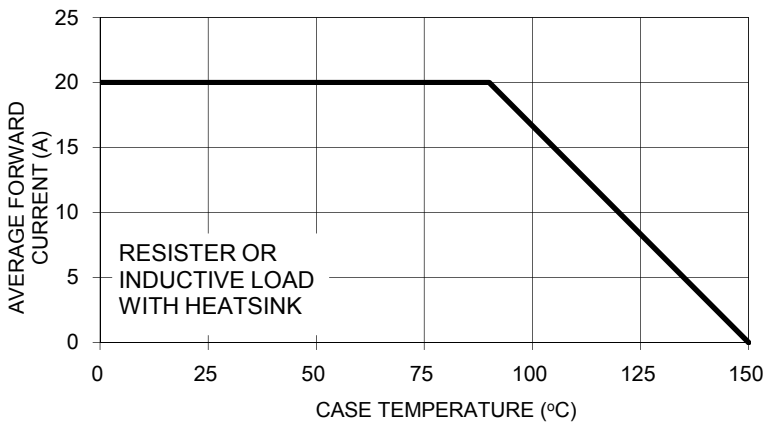


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

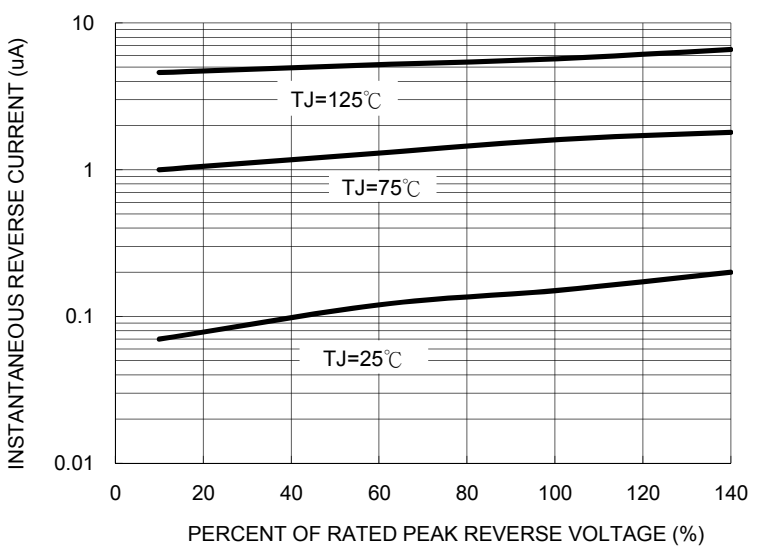


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

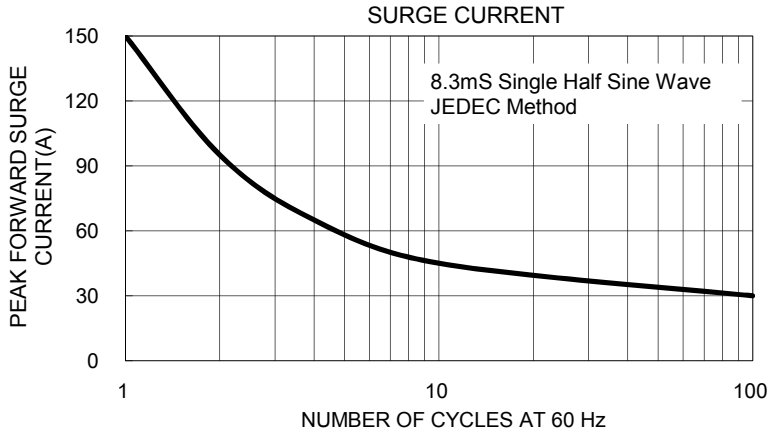


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

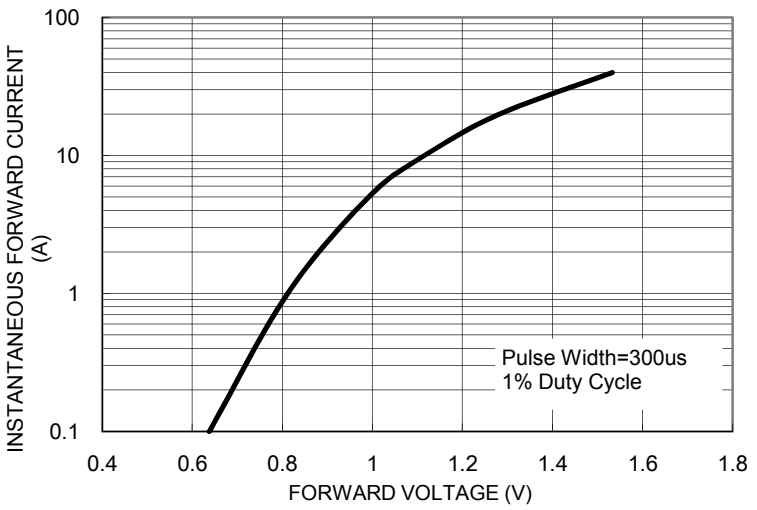


FIG. 5 TYPICAL JUNCTION CAPACITANCE

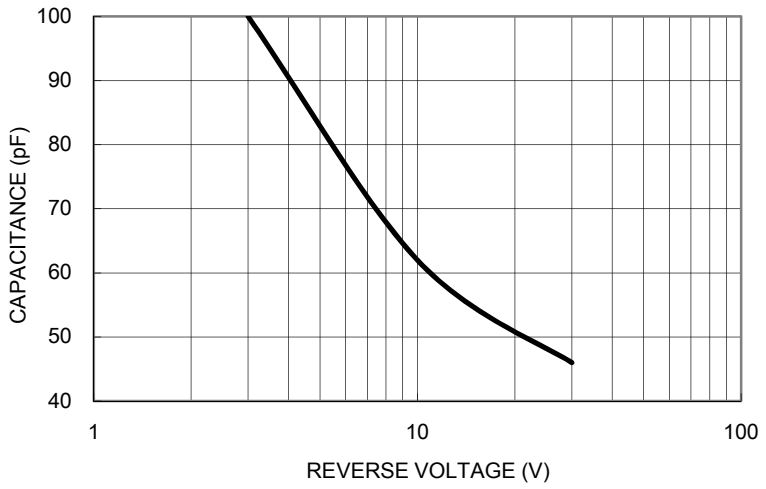
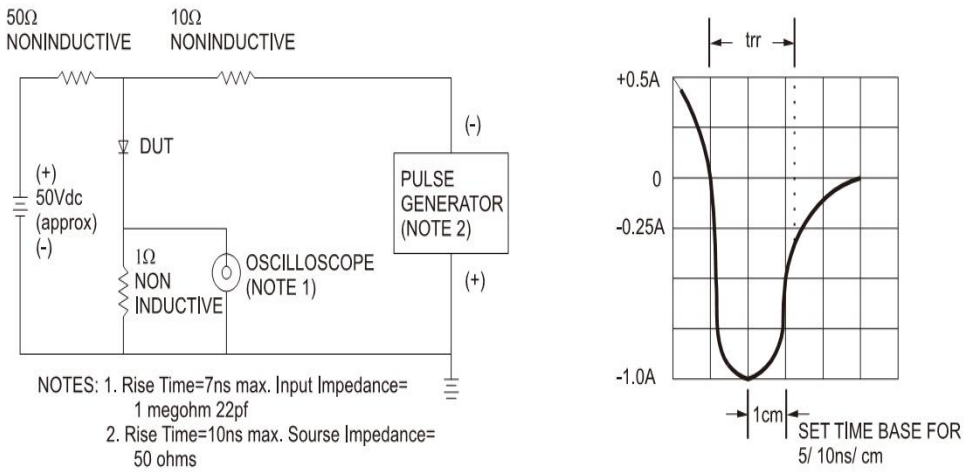
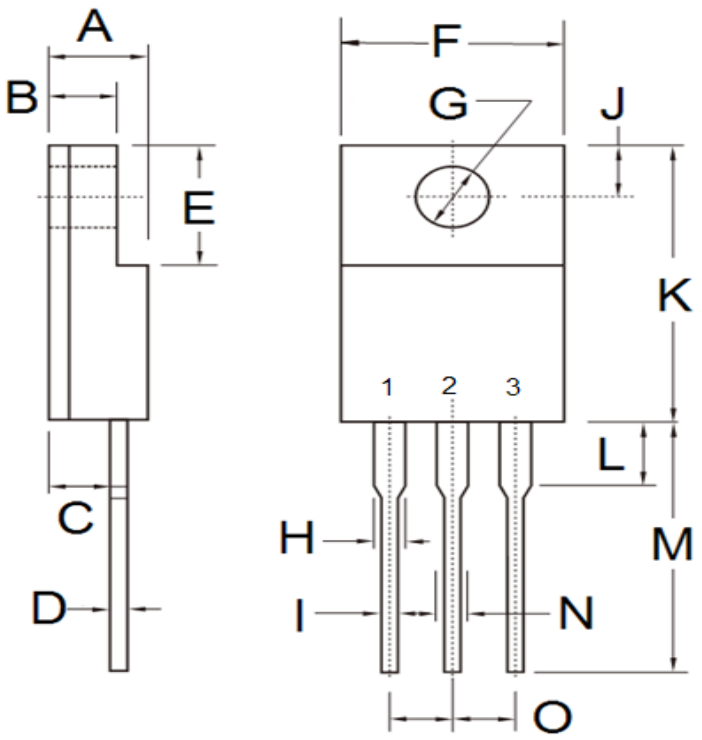


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.16	0.098	0.124
C	2.30	2.96	0.091	0.117
D	0.46	0.76	0.018	0.030
E	6.30	6.90	0.248	0.272
F	9.60	10.30	0.378	0.406
G	3.00	3.40	0.118	0.134
H	0.95	1.45	0.037	0.057
I	0.50	0.90	0.020	0.035
J	2.40	3.20	0.094	0.126
K	14.80	15.50	0.583	0.610
L	-	4.10	-	0.161
M	12.60	13.80	0.496	0.543
N	-	1.80	-	0.071
O	2.41	2.67	0.095	0.105

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code
F = Factory Code