



Isolated Glass Passivated Super Fast Rectifier

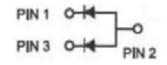
FEATURES

- 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





MECHANICAL DATA

Case: ITO-220AB

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

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 g (approximately)

	SYMBOL	SFF 2004	SFF 2005	SFF 2006	SFF 2008	UNIT
PARAMETER						
		GA	GA	GA	GA	
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			Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150		А		
Maximum instantaneous forward voltage (Note 1) I _F = 10 A	V _F	0.975	1	.3	1.7	V
Maximum reverse current @ rated VR T _J =25 °C		10				μА
T _J =125 ℃	I _R	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			°C/W	
Operating junction temperature range	T _J	- 55 to +150			°С	
Storage temperature range	T _{STG}	- 55 to +150			οС	

Note 1: Pulse Test with PW=300µs, 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.



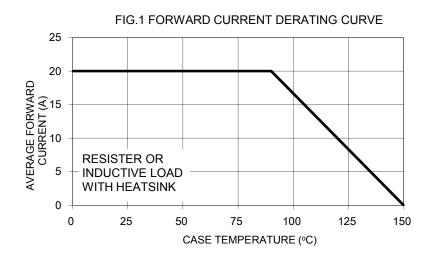
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
SFF200xGA (Note 1)	C0	Suffix "G"	ITO-220AB	50 / Tube	

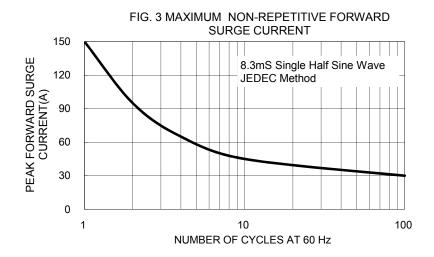
Note 1: "xx" defines voltage from 200V (UGF2004GA) to 600V (UGF2008GA)

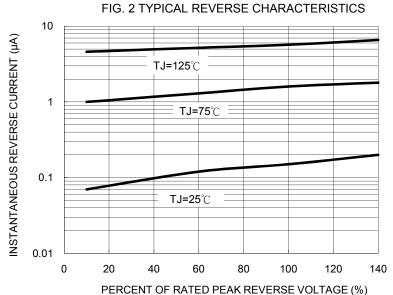
EXAMPLE						
PREFERRED P/N PART NO		PACKING CODE GREEN COMPOUND CODE		DESCRIPTION		
SFF2004GA C0	SFF2004GA	C0				
SFF2004GA C0G	SFF2004GA	C0	G	Green compound		

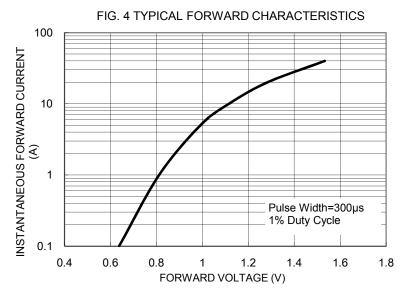
RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)









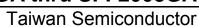
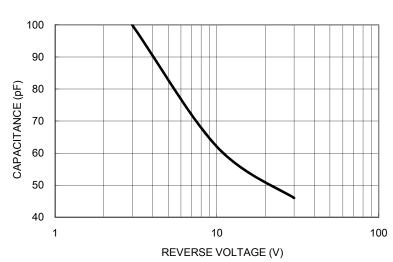
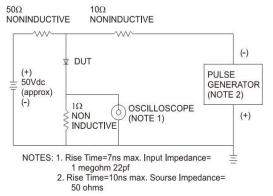
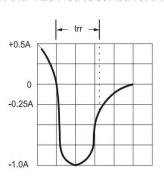




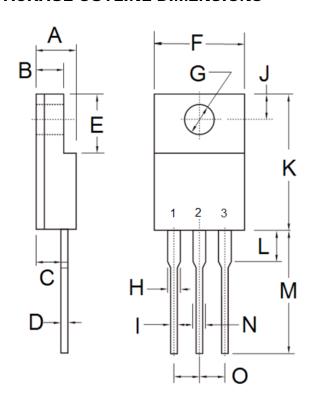
FIG. 5 TYPICAL JUNCTION CAPACITANCE FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM







PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	4.30	4.70	0.169	0.185	
В	2.50	3.16	0.098	0.124	
С	2.30	2.96	0.091	0.117	
D	0.46	0.76	0.018	0.030	
Е	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	
Н	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	
М	12.60	13.80	0.496	0.543	
N	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code



Taiwan Semiconductor

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