



16A, 50V - 600V Isolated Glass Passivated Super Fast Rectifiers

FEATURES

- High efficiency, low VF.
- High current capability
- High reliability
- High surge current capability
- Low power loss
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



Case: ITO-220AC

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max. Weight: 1.7 g (approximately)







ITA	~~~	
11()	-220	ΔI^{-}

PIN 1	~
PIN 2	\circ

SFAF 1601G 50 35	SFAF 1602G 100 70	SFAF 1603G 150	SFAF 1604G 200	SFAF 1605G	SFAF 1606G	SFAF 1607G	SFAF 1608G	UNIT
50 35	100	150			1606G	1607G	1608G	CIVIT
35			200					UNII
	70		_00	300	400	500	600	V
		105	140	210	280	350	420	V
50	100	150	200	300	400	500	600	V
			1	6				Α
200					А			
0.975 1.3 1.7			V					
10 400					μΑ			
35 n					ns			
130 100				pF				
1.3				°C/W				
- 55 to +150				°C				
- 55 to +150				°C				
	50	0.9	0.975	0.975 0.975 11 40 3. 130 1.	16 200 0.975 10 400 35 130 1.3 - 55 to +150	16 200 0.975 1.3 10 400 35 130 1.3 - 55 to +150	16 200 0.975 1.3 10 400 35 130 100 1.3 -55 to +150	16 200 0.975 1.3 1.7 10 400 35 130 1.3 - 55 to +150

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: 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 DC.

ORDERING INFORMATION							
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING		
SFAF160xG (Note 1)	Н	C0	G	ITO-220AC	50 / Tube		

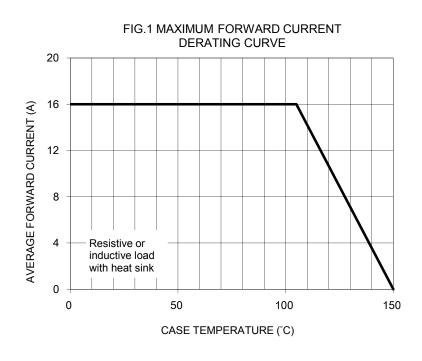
Note 1: "x" defines voltage from 50V (SFAF1601G) to 600V (SFAF1608G)

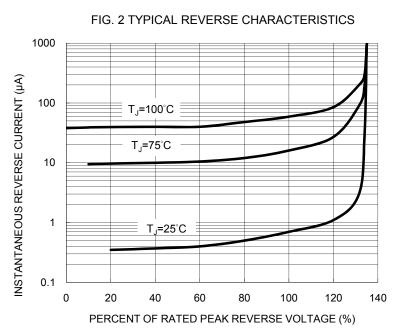
^{*:} Optional available

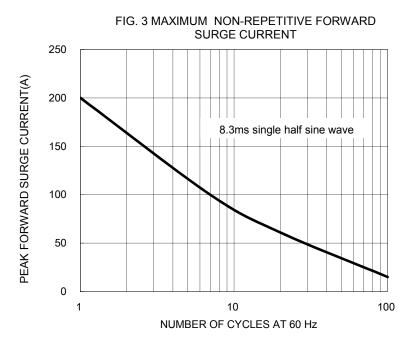
EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SFAF1601GHC0G	SFAF1601G	Н	C0	О	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







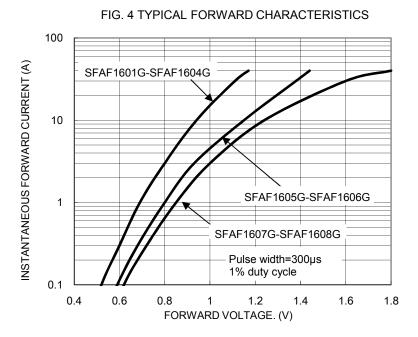






FIG. 5 TYPICAL JUNCTION CAPACITANCE

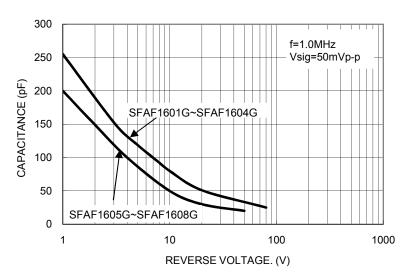
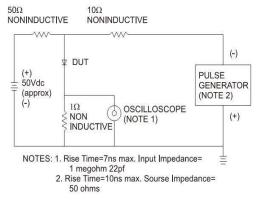
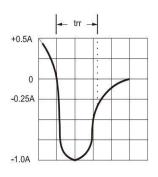


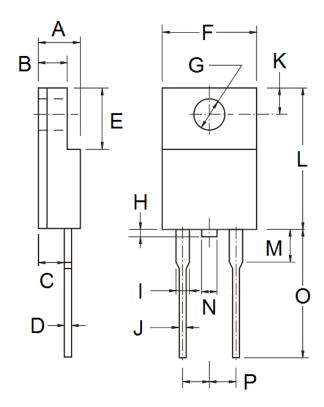
FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS

ITO-220AC



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	4.30	4.70	0.169	0.185	
В	2.50	3.10	0.098	0.122	
С	2.30	2.90	0.091	0.114	
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	0.00	1.60	0.000	0.063	
I	0.95	1.45	0.037	0.057	
J	0.50	0.90	0.020	0.035	
K	2.40	3.20	0.094	0.126	
L	14.80	15.50	0.583	0.610	
М	-	4.10	-	0.161	
N	-	1.80	-	0.071	
0	12.60	13.80	0.496	0.543	
Р	4.95	5.20	0.195	0.205	

MARKING DIAGRAM



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





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