- riigii surge current capability

- Moisture sensitivity level: level 1, per J-STD-020

- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC

- Halogen-free according to IEC 61249-2-21 definition







### **MECHANICAL DATA**

Case: TO-263AB (D<sup>2</sup>PAK)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

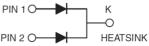
Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: As marked

Weight: 1.41 g (approximately)

TO-263AB (D<sup>2</sup>PAK)



S SFS 1602 G 100 5 70	SFS 1603 G 150	SFS 1604 G 200	G	SFS 1606 G	10
100	150			G	ļ
70	1	200	200	-	1
	105		300	400	5
100		140	210	280	3
	150	200	300	400	5
•		1	16	•	
125					
0.975 1.3			.3		
10 400					
35					
8	80			6	0
2.5					
- 55 to +150					
- 55 to +150					
		0.975	0.975 4 3 80 2 - 55 to	125 0.975 10 400 35 80 2.5 - 55 to +150	125  0.975  1.3  10  400  35  80  2.5  - 55 to +150

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

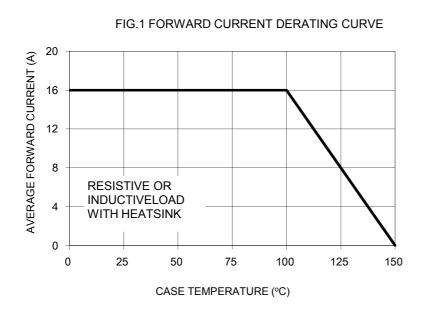
Note 2: Reverse Recovery Test Conditions:  $I_F$ =0.5A,  $I_R$ =1.0A,  $I_{RR}$ =0.25A

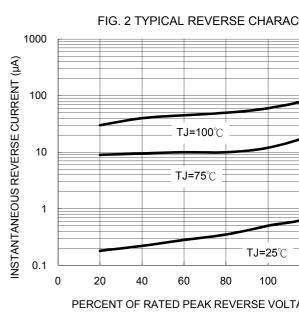
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

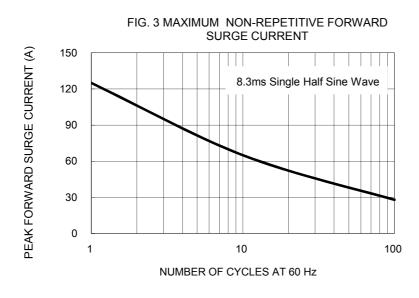
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESC	
T KET EKKED T /N	PART NO.	QUALIFIED	T AOKING GODE	CODE		
SFS1608G RN	SFS1608G		RN			
SFS1608G RNG	SFS1608G		RN	G	Green	
SFS1608GHRN	SFS1608G	Н	RN		AEC-Q	

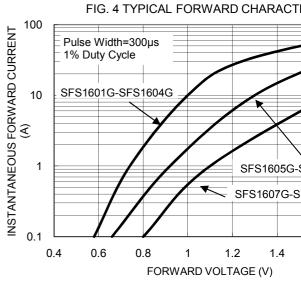
### **RATINGS AND CHARACTERISTICS CURVES**

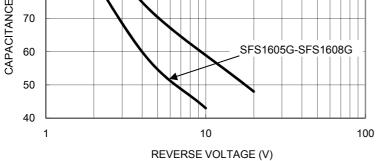
(TA=25°C unless otherwise noted)

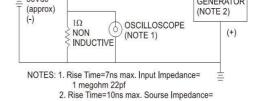






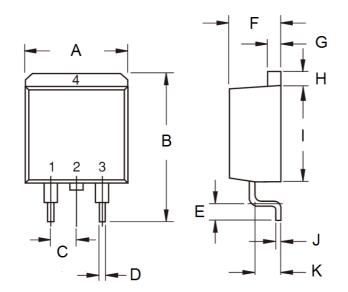






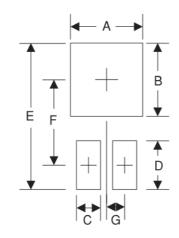


**PACKAGE OUTLINE DIMENSIONS** 



DIM.	Unit	(mm)	Unit (inch)		
DIW.	Min	Max	Min	Max	
Α	-	10.5	-	0.413	
В	14.60	15.88	0.575	0.625	
С	2.41	2.67	0.095	0.105	
D	0.68	0.94	0.027	0.037	
E	2.29	2.79	0.090	0.110	
F	4.44	4.70	0.175	0.185	
G	1.14	1.40	0.045	0.055	
Н	1.14	1.40	0.045	0.055	
I	8.25	9.25	0.325	0.364	
J	0.36	0.53	0.014	0.021	
K	2.03	2.79	0.080	0.110	

# **SUGGESTED PAD LAYOUT**



Symbol	Unit (mm)	Unit (inch)
Α	10.8	0.425
В	8.3	0.327
С	1.1	0.043
D	3.5	0.138
E	16.9	0.665
F	9.5	0.374
G	2.5	0.098

# **MARKING DIAGRAM**



P/N = Specific Device Code G = Green Compound

G = Green Compound YWW = Date Code

F = Factory Code

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