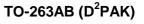
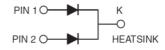
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: TO-263AB (D²PAK) Molding compound, UL flammability classification rating 94V-0 Moisture sensitivity level: level 1, per J-STD-020 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 Weight: 1.41 g (approximately)







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
		SFS	SFS	SFS	SFS	SFS	SFS	
PARAMETER	SYMBOL	1601	1602	1603	1604	1605	1606	1
		G	G	G	G	G	G	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	
Maximum average forward rectified current	I _{F(AV)}	16						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	125						
Maximum instantaneous forward voltage (Note 1) I _F = 8 A	V _F	0.975 1.3			.3			
Maximum reverse current @ rated V_R T _J =25°C T _J =125°C	I _R	10 400						
Maximum reverse recovery time (Note 2)	t _{rr}	35						
Typical junction capacitance (Note 3)	CJ	80		6	60			
Typical thermal resistance	R _{eJC}	2.5						
Operating junction temperature range	TJ	- 55 to +150						
Storage temperature range	T _{STG}	- 55 to +150						
Note 1: Dulas test with DW-200us 10/ duty such								

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

Note 2: Reverse Recovery Test Conditions: $I_{\text{F}}\text{=}0.5\text{A},\,I_{\text{R}}\text{=}1.0\text{A},\,I_{\text{RR}}\text{=}0.25\text{A}$

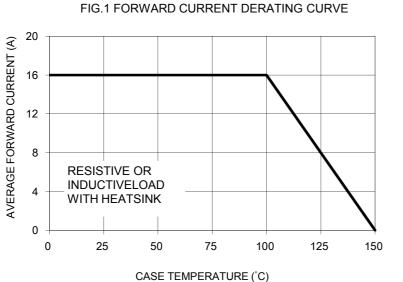
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

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EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESC
SFS1608GHRNG	SFS1608G	Н	RN	G	AEC-Q Green

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



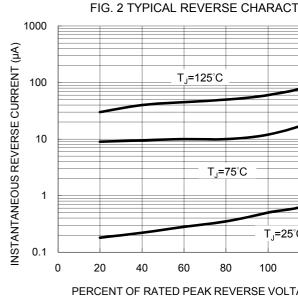


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

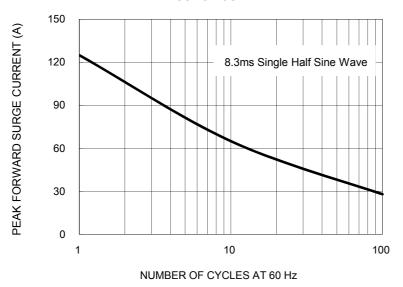
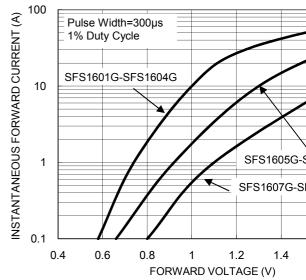
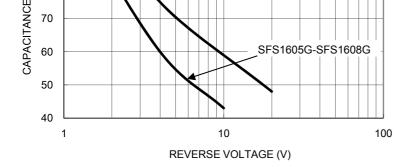
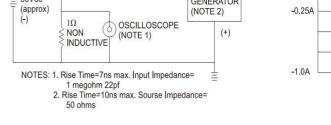


FIG. 4 TYPICAL FORWARD CHARACT

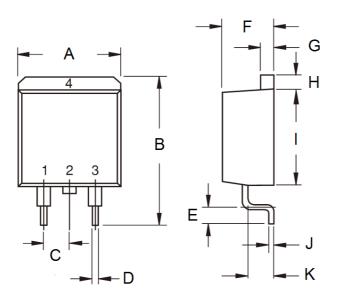


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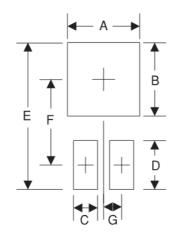


PACKAGE OUTLINE DIMENSIONS TO-263AB (D²PAK)



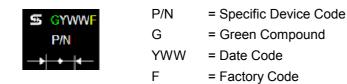
DIM.	Unit	(mm)	Unit (inch)			
Divi.	Min	Max	Min	Мах		
А	-	10.5	-	0.413		
В	14.60	15.88	0.575	0.625		
С	2.41	2.67	0.095	0.105		
D	0.68	0.94	0.027	0.037		
Е	2.29	2.79	0.090	0.110		
F	4.44	4.70	0.175	0.185		
G	1.14	1.40	0.045	0.055		
Н	1.14	1.40	0.045	0.055		
I	8.25	9.25	0.325	0.364		
J	0.36	0.53	0.014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

SUGGESTED PAD LAYOUT



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

MARKING DIAGRAM



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