- High temperature metallurgically bonded construction
- Fast switching for high efficiency
- 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: Sub SMA

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:** Indicated by cathode band **Weight:** 0.019 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHAR	- I						
PARAMETER	SYMBOL	RSF	RSF	RSF	RSF	RSF	RS
		AL	BL	DL	GL	JL	KL
Marking code		FAL	FBL	FDL	FGL	FJL	FKL
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560
Maximum DC blocking voltage	age V <sub>DC</sub> 50 100 200 400				600	800	
Maximum average forward rectified current	I <sub>F(AV)</sub>	0.5					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	10					
Maximum instantaneous forward voltage (Note 1) @ 0.5 A	V <sub>F</sub>	1.3					
Maximum reverse current @ rated VR $T_J$ =25 $^{\circ}$ C $T_J$ =125 $^{\circ}$ C	I <sub>R</sub>	5 50					
Typical junction capacitance (Note 2)	Cj				4		
Maximum reverse recovery time (Note 3)	Trr		1:	50		250	
Typical thermal resistance	$R_{ heta jC} \ R_{ heta jA}$	32 150					
Operating junction temperature range	TJ	- 55 to +150					
Storage temperature range	T <sub>STG</sub>	- 55 to +150					

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

Note 2: Measured at 1 MHz and Applied VR=4.0 Volts.

Note 3: Reverse Recovery Test Conditions:  $I_F$ =0.5A,  $I_R$ =1.0A,  $I_{RR}$ =0.25A

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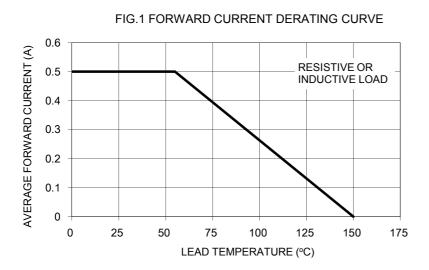
		MT		Sub SMA	7,500 / 13" Plastic
RSFxL (Note 1) Prefix "H"	RQ	RQ	Sub SMA	10,000 / 13" Pape	
	MQ Suffix "G"	Sub SMA	10,000 / 13" Plasti		
	R3	Sullix G	Sub SMA	1,800 / 7" Plastic i	
	RF		Sub SMA	3,000 / 7" Plastic i	
		R2		Sub SMA	7,500 / 13" Paper
		M2		Sub SMA	7,500 / 13" Plastic
		RH		Sub SMA	10,000 / 13" Paper
		MH		Sub SMA	10,000 / 13" Plastic

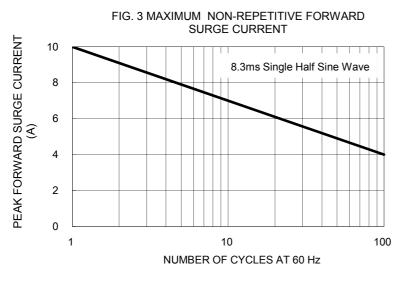
Note 1: "x" defines voltage from 50V (RSFAL) to 1000V (RSFML)

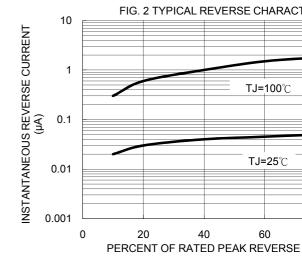
EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DES
RSFML RU	RSFML	QUALIFIED	RU	CODE	
RSFML RUG	RSFML		RU	G	Gree
RSFMLHRU	RSFML	Н	RU		AEC-0

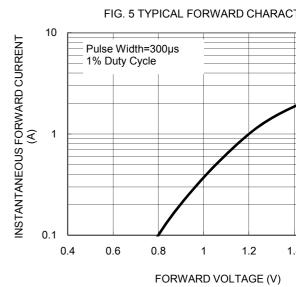
### **RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)

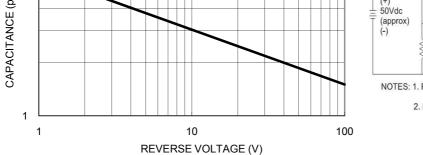




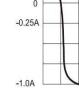




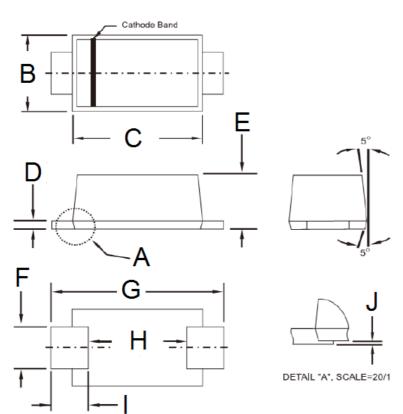
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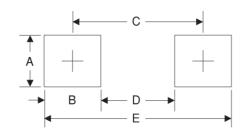


# PACKAGE OUTLINE DIMENSIONS



Unit	Unit (in		
Min	Max	Min	
1.70	1.90	0.067	
2.70	2.90	0.106	
0.16	0.30	0.006	
1.23	1.43	0.048	
0.80	1.20	0.031	
3.40	3.80	0.134	
2.45	2.60	0.096	
0.35	0.85	0.014	
0.00	0.10	0.000	
	Min 1.70 2.70 0.16 1.23 0.80 3.40 2.45 0.35	1.70     1.90       2.70     2.90       0.16     0.30       1.23     1.43       0.80     1.20       3.40     3.80       2.45     2.60       0.35     0.85	Min         Max         Min           1.70         1.90         0.067           2.70         2.90         0.106           0.16         0.30         0.006           1.23         1.43         0.048           0.80         1.20         0.031           3.40         3.80         0.134           2.45         2.60         0.096           0.35         0.85         0.014

# **SUGGESTED PAD LAYOUT**



Symbol	Unit (mm)	Unit (inch)
Α	1.4	0.055
В	1.2	0.047
С	3.1	0.122
D	1.9	0.075
E	4.3	0.169

## **MARKING DIAGRAM**



P/N = Marking Code G = Green Compound

YW = Date Code

F = Factory Code

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