- Low power loss, high enclency
- 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 CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	S1AL	S1BL	S1DL	S1GL	S1JL	S1K
Marking code		1AL	1BL	1DL	1GL	1JL	1Kl
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800
Maximum average forward rectified current	I _{F(AV)}	1					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.1					
Maximum reverse current @ rated VR T _J =25 $^{\circ}$ C T _J =125 $^{\circ}$ C	I _R	5 50					
Typical junction capacitance (Note 2)	Cj	9					
Typical reverse recovery time (Note 3)	Trr	1.8					
Typical thermal resistance	R _{θJL} R _{θJA}	25 85					
Operating junction temperature range	TJ	- 55 to +175					
Storage temperature range	T _{STG}	- 55 to +175					

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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Sub SMA

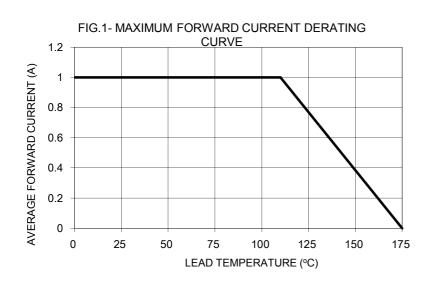
		MT		Sub SMA	7,500 / 13" Plasti
S1xL Prefix "H" (Note 1)	RQ	Suffix "G"	Sub SMA	10,000 / 13" Pape	
	MQ		Sub SMA	10,000 / 13" Plast	
	R3	Sullix G	Sub SMA	1,800 / 7" Plastic	
	RF		Sub SMA	3,000 / 7" Plastic	
	R2		Sub SMA	7,500 / 13" Paper	
		M2		Sub SMA	7,500 / 13" Plastic
		RH		Sub SMA	10,000 / 13" Pape
		MH		Sub SMA	10,000 / 13" Plasti

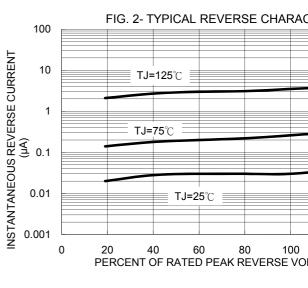
Note 1: "x" defines voltage from 50V (S1AL) to 1000V (S1ML)

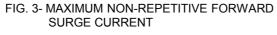
EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DE
		QUALIFIED	I AORING CODE	CODE	
S1ML RU	S1ML		RU		
S1ML RUG	S1ML		RU	G	Gre
S1MLHRU	S1ML	Н	RU		AEC

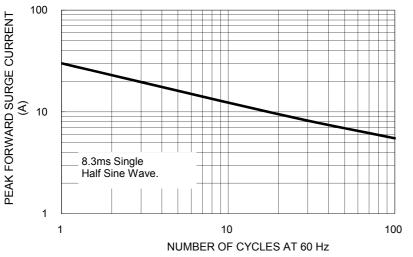
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

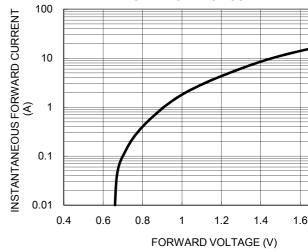




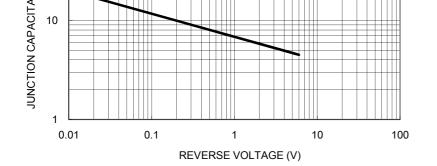




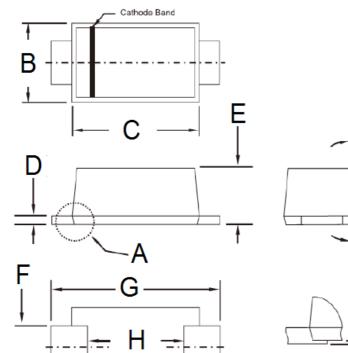




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PACKAGE OUTLINE DIMENSIONS

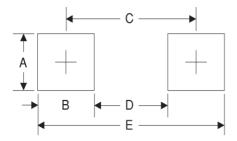


DIM.	Unit	Unit (
DINI.	Min	Max	Min	
В	1.70	1.90	0.067	
С	2.70	2.90	0.106	
D	0.16	0.30	0.006	
E	1.23	1.43	0.048	
F	0.80	1.20	0.031	
G	3.40	3.80	0.134	
Н	2.45	2.60	0.096	
I	0.35	0.85	0.014	
J	0.00	0.10	0.000	

DETAIL "A", SCALE=20/1

 5°

SUGGESTED PAD LAYOUT



P/N G

YW

F

Symbol	Unit (mm)	Unit (inch)
А	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



- = Marking Code
- = Green Compound
- = Date Code
- = Factory Code

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