- Low profile package
- Low power loss, 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





Sub SMA

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)

SYMBOL	CS (T _A =25°C unless otherwise noted)						
	1AL	1BL	1CL	1DL	1FL	1GL	1
	EAL	EBL	ECL	EDL	EFL	EGL	E
V_{RRM}	50	100	150	200	300	400	ţ
V_{RMS}	35	70	105	140	210	280	;
V_{DC}	50	100	150	200	300	400	Ę
I _{F(AV)}					1		
I _{FSM}	30						
V _F	0.95 1.3			.3			
I _R	5 100			-			
Cj	10		3	8			
Trr				3	5		
$R_{\scriptscriptstyle{ hetaJL}} \ R_{\scriptscriptstyle{ hetaJA}}$	35 85						
TJ	- 55 to +150						
T _{STG}	- 55 to +150						
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{F(AV)} \\ I_{FSM} \\ \end{array}$ $\begin{array}{c} V_{F} \\ I_{R} \\ Cj \\ Trr \\ R_{\theta JL} \\ R_{\theta JA} \\ T_{J} \\ \end{array}$	TAL EAL VRRM 50 VRMS 35 VDC 50 TFSM VF TR TT TT Regular Regular TJ TJ TAL TJ TAL TJ TAL TJ TAL TAL TJ TAL TAL	SYMBOL	SYMBOL 1AL 1BL 1CL EAL EBL ECL V _{RRM} 50 100 150 V _{RMS} 35 70 105 V _{DC} 50 100 150 I _{F(AV)} I _{F(AV)} V _F 0.95 I _R Cj 10 Trr R _{θ,JL} R _{θ,JL} R _{θ,JL} R _{θ,JA} T _J	SYMBOL 1AL 1BL 1CL 1DL EAL EBL ECL EDL V _{RRM} 50 100 150 200 V _{RMS} 35 70 105 140 V _{DC} 50 100 150 200 I _{F(AV)} I _{F(AV)} 3 V _F 0.95 10 Trr 3 3 R _{θ,JL} 3 3	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	SYMBOL

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

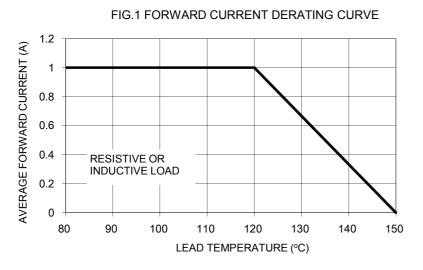
		MT		Sub SMA	7,500 / 13" Plastic
ES1xL	ES1xL (Note 1) Prefix "H"	RQ	Suffix "G"	Sub SMA	10,000 / 13" Pape
		MQ		Sub SMA	10,000 / 13" Plast
(Note 1)		R3		Sub SMA	1,800 / 7" Plastic
	RF		Sub SMA	3,000 / 7" Plastic	
		R2		Sub SMA	7,500 / 13" Paper
		M2		Sub SMA	7,500 / 13" Plastic
		RH		Sub SMA	10,000 / 13" Papei
		MH		Sub SMA	10,000 / 13" Plastic

Note 1: "x" defines voltage from 50V (ES1AL) to 600V (ES1JL)

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DES
ES1JL RU	ES1JL		RU		
ES1JL RUG	ES1JL		RU	G	Gree
ES1JLHRU	ES1JL	Н	RU		AEC-

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



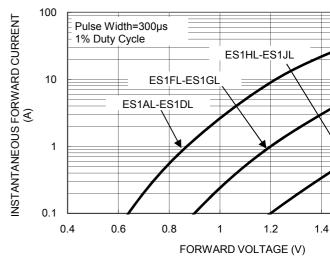
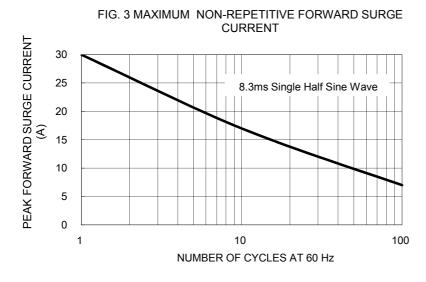
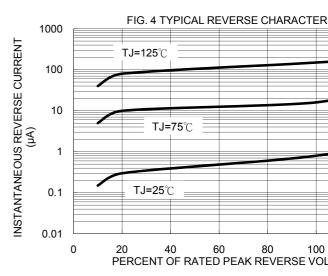
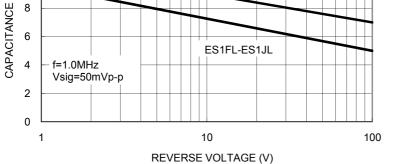
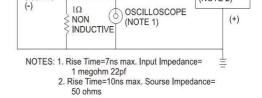


FIG. 2 TYPICAL FORWARD CHARACTER



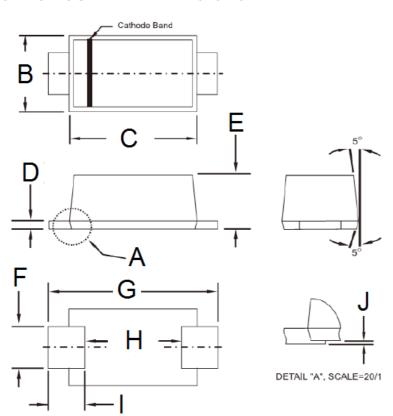






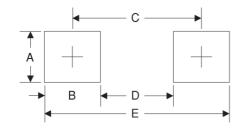


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
В	1.70	1.90	0.067	0.075	
С	2.70	2.90	0.106	0.114	
D	0.16	0.30	0.006	0.012	
E	1.23	1.43	0.048	0.056	
F	0.80	1.20	0.031	0.047	
G	3.40	3.80	0.134	0.150	
Н	2.45	2.60	0.096	0.102	
Ī	0.35	0.85	0.014	0.033	
J	0.00	0.10	0.000	0.004	

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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