- Dulit-ili Straili reliei

- 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





**DO-214AC (SMA)** 

### **MECHANICAL DATA**

Case: DO-214AC (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:** 0.06 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARA	CTERSTICS (			ss otne	erwise i	notea)	
PARAMETER	SYMBOL	ES	ES	ES	ES	ES	ES
FARAIVIL I ER	STIVIDOL	1A	1B	1C	1D	1F	1G
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 <sub>F(AV)</sub>				·	1	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>				3	0	
Maximum instantaneous forward voltage (Note 1) @ 1 A	V <sub>F</sub>	0.95 1.3			.3		
Maximum reverse current @ rated VR $T_J$ =25 $^{\circ}$ C $T_J$ =100 $^{\circ}$ C	I <sub>R</sub>	5 100			-		
Maximum reverse recovery time (Note 2) Trr			35				
Typical junction capacitance (Note 3)	Cj		1	6			1
Typical thermal resistance	$R_{ heta JL} \ R_{ heta JA}$	35 85					
Operating junction temperature range	T <sub>J</sub>	- 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: Reverse Recovery Test Conditions:  $I_F$ =0.5A,  $I_R$ =1.0A,  $I_{RR}$ =0.25A

Note 3: Measured at 1 MHz and Applied V<sub>R</sub>=4.0 Volts

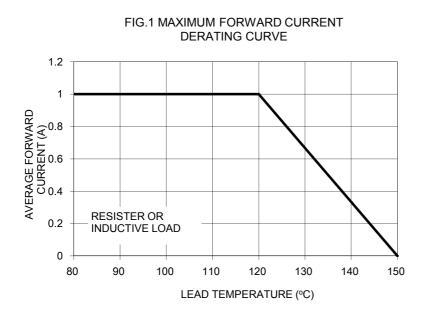
Drativ "H"						
ES1x Prefix "H"	FIGUX II	F3	Suffix "G"	Folded SMA	1,800 / 7" Plas	
	(Note 1)		F2	Suillx G	Folded SMA	7,500 / 13" Pa
			F4		Folded SMA	7,500 / 13" Pla
	N/A	E3		Clip SMA	1,800 / 7" Plas	
		IN/A	E2		Clip SMA	7,500 / 13" Pla

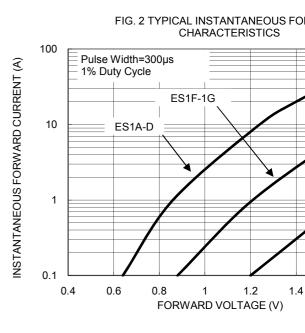
Note 1: "x" defines voltage from 50V (ES1A) to 600V (ES1J)

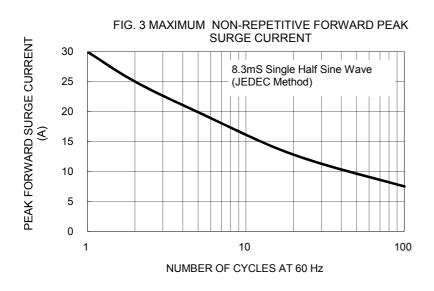
EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCI
ES1J R3	ES1J		R3		
ES1J R3G	ES1J		R3	G	Green o
ES1JHR3	ES1J	Н	R3		AEC-Q10

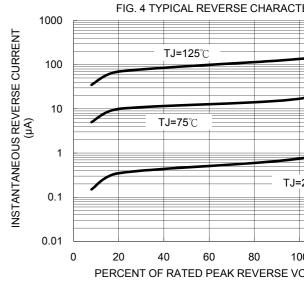
### **RATINGS AND CHARACTERISTICS CURVES**

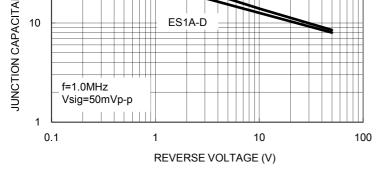
(TA=25°C unless otherwise noted)

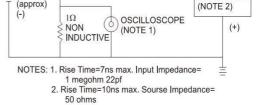






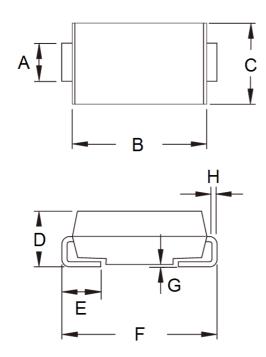






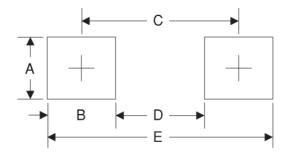


# **PACKAGE OUTLINE DIMENSIONS**



DIM.	Unit	(mm)	Unit (inch)		
Dilvi.	Min	Max	Min	Max	
Α	1.27	1.58	0.050	0.062	
В	4.06	4.60	0.160	0.181	
С	2.29	2.83	0.090	0.111	
D	1.99	2.50	0.078	0.098	
Е	0.90	1.41	0.035	0.056	
F	4.95	5.33	0.195	0.210	
G	0.10	0.20	0.004	0.008	
Н	0.15	0.31	0.006	0.012	

# **SUGGESTED PAD LAYOUT**



Symbol	Unit (mm)	Unit (inch)
Α	1.68	0.066
В	1.52	0.060
С	3.93	0.155
D	2.41	0.095
Е	5.45	0.215

# **MARKING DIAGRAM**



P/N = Specific Device Code G = Green Compound

YW = Date Code

F = Factory Code

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