- Ollialast recovery time for high emolericy
- Built-in strain relief
- 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: 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)

DO-214AC (SMA)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	US	US	US	US	US	US
ANAMETER	31MBGE	1A	1B	1D	1G	1J	1k
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	80
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	80
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	1.0 1			1.7		
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	5 150					
aximum reverse recovery time (Note 2)			50				75
Typical junction capacitance (Note 3)	Cj	15		10			
Typical thermal resistance	R _{θjL} R _{θjA}	27 75					
Operating junction temperature range	T _J	- 55 to +150					
Storage temperature range	T _{STG}	- 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 Reverse Voltage of 4.0V D.C.

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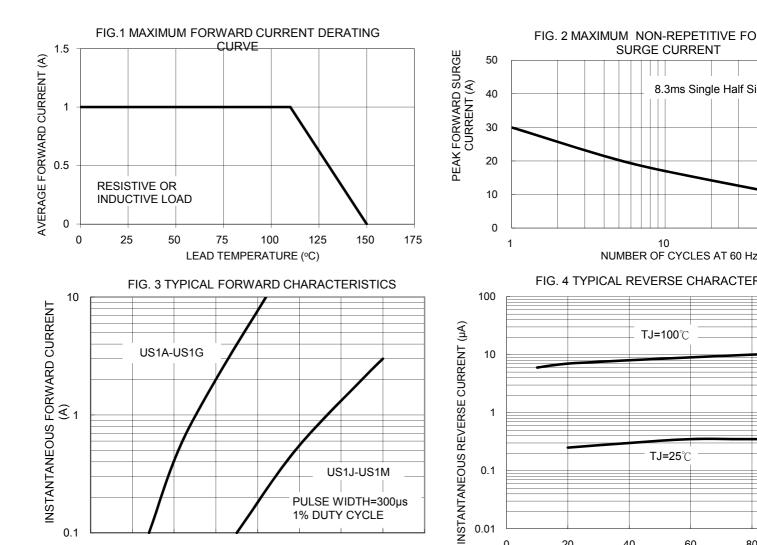
		Drotiv "H"				
US1x	Prefix "H"	F3	Suffix "G"	Folded SMA	1,800 / 7"	
(Note 1)		F2		Folded SMA	7,500 / 13'	
			F4		Folded SMA	7,500 / 13"
	N/A	E3		Clip SMA	1,800 / 7"	
		E2		Clip SMA	7,500 / 13"	

Note 1: "x" defines voltage from 50V (US1A) to 1000V (US1M)

EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DE		
US1M R3	US1M		R3				
US1M R3G	US1M		R3	G	Gre		
US1MHR3	US1M	Н	R3		AEC		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



PULSE WIDTH=300µs 1% DUTY CYCLE

1.6

1.2

FORWARD VOLTAGE (V)

1.4

1.8

2

0.01

20

40

PERCENT OF RATED PEAK REVERSE VO

60

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0.6

8.0

0.1

0.4

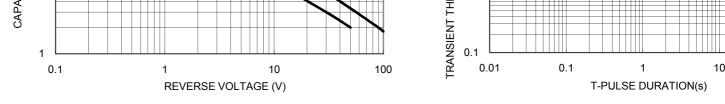
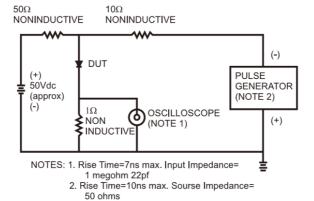
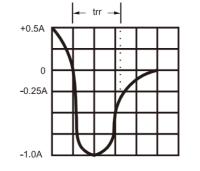
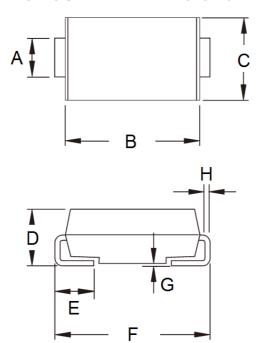


FIG.7- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



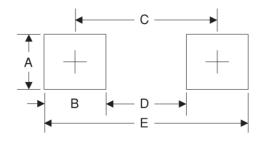


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	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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