

- High surge current capability
- 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 - 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: 0.066 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	SSL12	SSL13	SSL14
Marking Code		SL12	SL13	SL14
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40
Maximum RMS voltage	V _{RMS}	14	21	28
Maximum DC blocking voltage	V _{DC}	20	30	40
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}	50		
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	0.39		
Maximum reverse current @ rated VR T _J =25 °C T _J =100°C	I _R	0.2		
		50		
Typical thermal resistance	R _{θJL}	28		
	R _{θJA}	88		
Operating junction temperature range	T _J	- 55 to +125		
Storage temperature range	T _{STG}	- 55 to +150		

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

(Note 1)	Prefix "H"	F3	Suffix "G"	Folded SMA	1,800 / 7"
		F2		Folded SMA	7,500 / 13"
		F4		Folded SMA	7,500 / 13"

Note 1: "x" defines voltage from 20V (SSL12) to 40V (SSL14)

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DES
SSL14 R3	SSL14		R3		
SSL14 R3G	SSL14		R3	G	Green
SSL14HR3	SSL14	H	R3		AEC-Q101

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

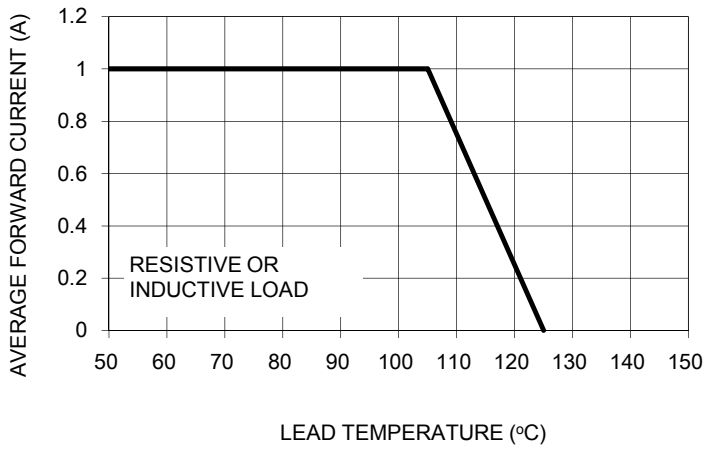


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

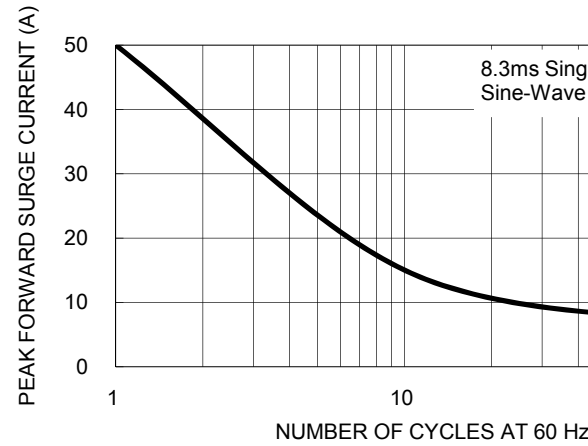


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

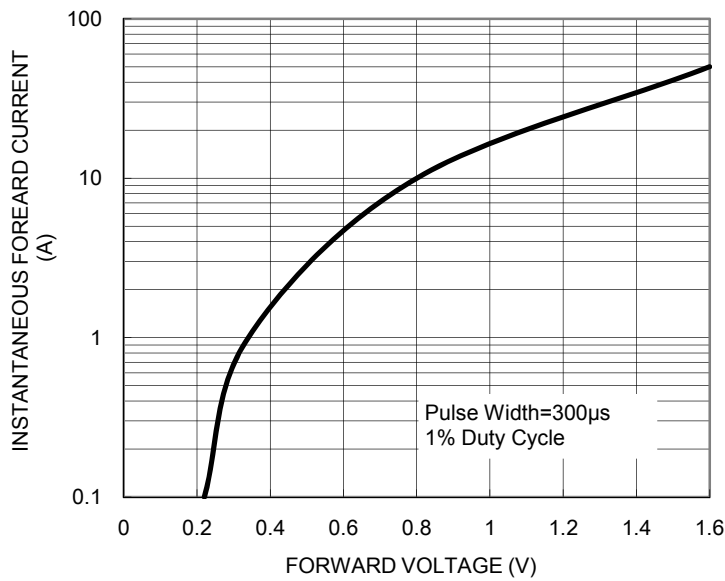
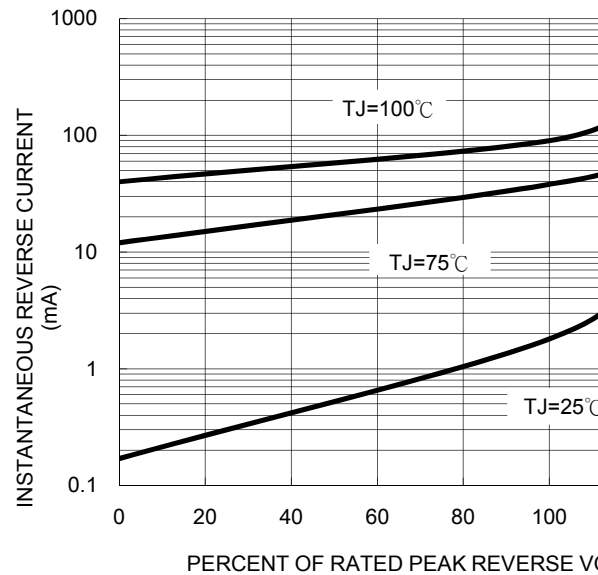
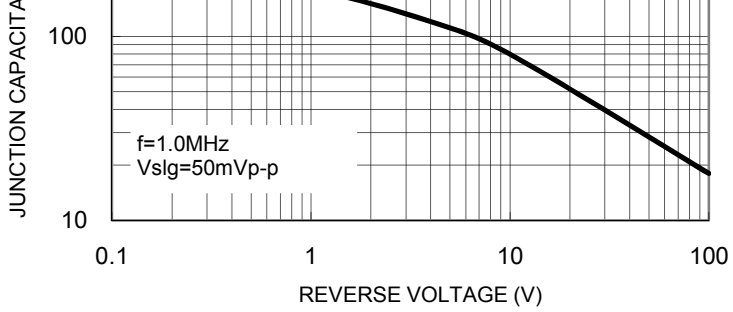
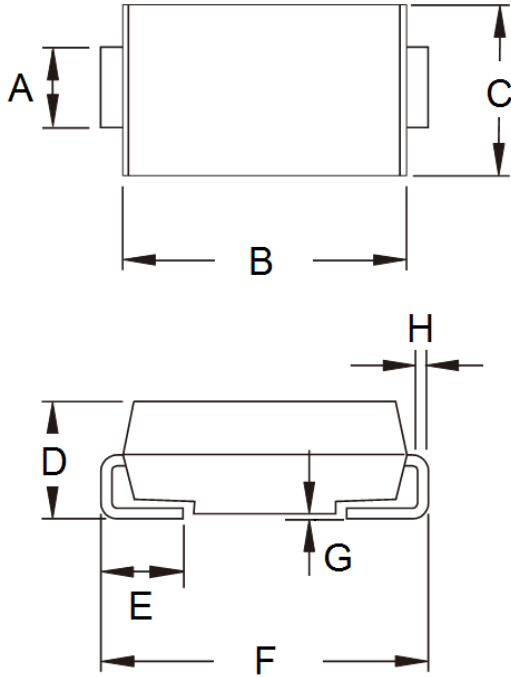


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



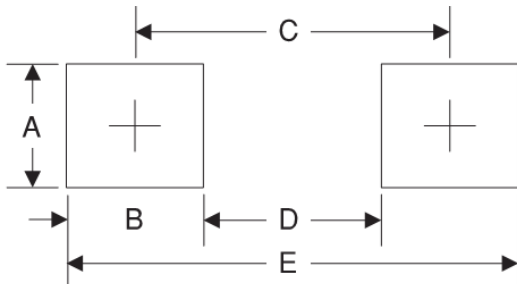


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.27	1.58	0.050	0.062
B	4.06	4.60	0.160	0.181
C	2.29	2.83	0.090	0.111
D	1.99	2.50	0.078	0.098
E	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
H	0.15	0.31	0.006	0.012

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
B	1.52	0.060
C	3.93	0.155
D	2.41	0.095
E	5.45	0.215

MARKING DIAGRAM



P/N = Marking Code
 G = Green Compound
 YW = Date Code
 F = Factory Code

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