

- 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



Sub SMA

MECHANICAL DATA

Case: Sub 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: 0.019 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS 22L	SS 23L	SS 24L	SS 25L	SS 26L	SS 29L	SS 30L	
Marking code		22L	23L	24L	25L	26L	29L	30L	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63	70	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	90	100	
Maximum average forward rectified current	I _{F(AV)}	2							
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50							
Maximum instantaneous forward voltage (Note 1) @ 2A	V _F	0.50			0.70		0.85		
Maximum reverse current @ rated VR T _J =25 °C T _J =100 °C T _J =125 °C	I _R	0.4							
		15			10				
		-			-				
Voltage rate of change (Rated V _R)	dV/dt	10000							
Typical thermal resistance	R _{θJL}	17							
	R _{θJA}	75							
Operating junction temperature range	T _J	- 55 to +125			- 55 to +150				
Storage temperature range	T _{STG}	- 55 to +150							

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

SS2XL (Note 1)	Prefix "H"	MT	Suffix "G"	Sub SMA	7,500 / 13" Plastic re
		RQ		Sub SMA	10,000 / 13" Paper r
		MQ		Sub SMA	10,000 / 13" Plastic r
		R3		Sub SMA	1,800 / 7" Plastic re
		RF		Sub SMA	3,000 / 7" Plastic re
		R2		Sub SMA	7,500 / 13" Paper re
		M2		Sub SMA	7,500 / 13" Plastic re
		RH		Sub SMA	10,000 / 13" Paper re
		MH		Sub SMA	10,000 / 13" Plastic r

Note 1: "x" defines voltage from 20V (SS22L) to 150V (SS215L)

EXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESC
SS26L RU	SS26L		RU		
SS26L RUG	SS26L		RU	G	Green
SS26LHRU	SS26L	H	RU		AEC-Q1

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

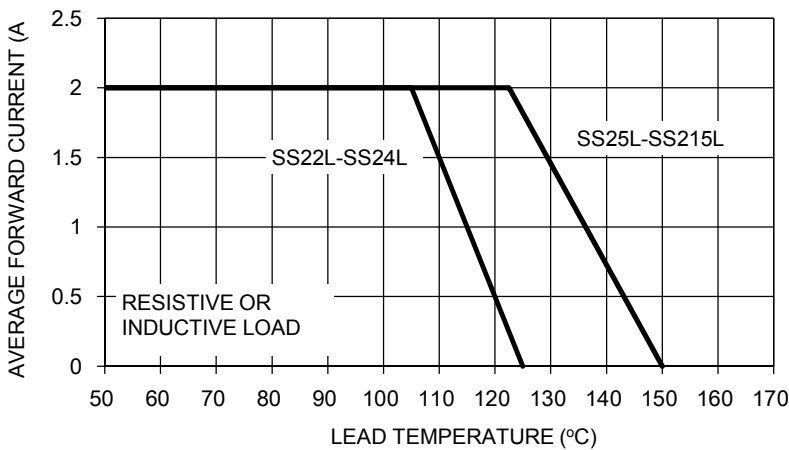


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

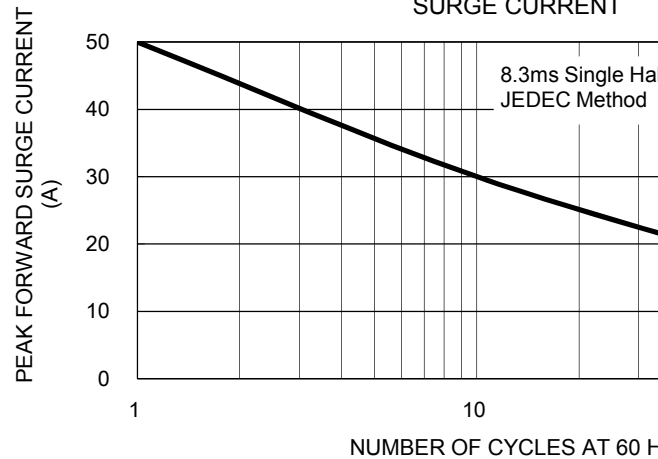


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

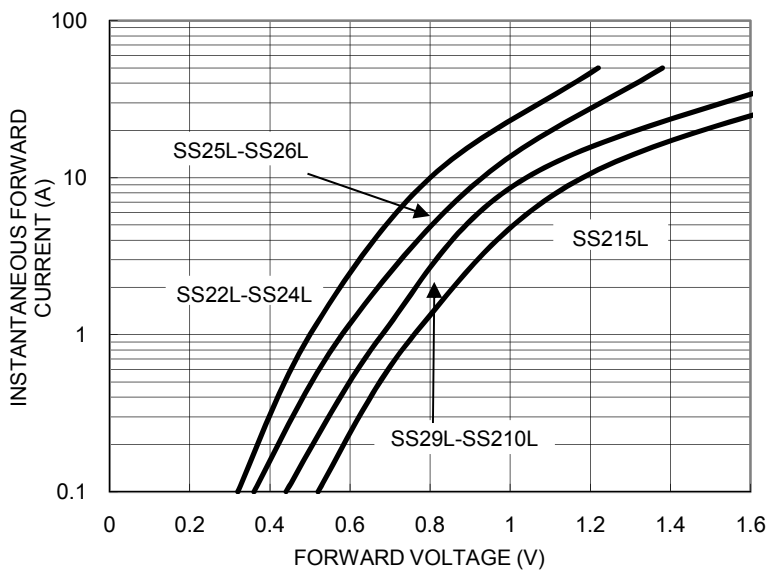
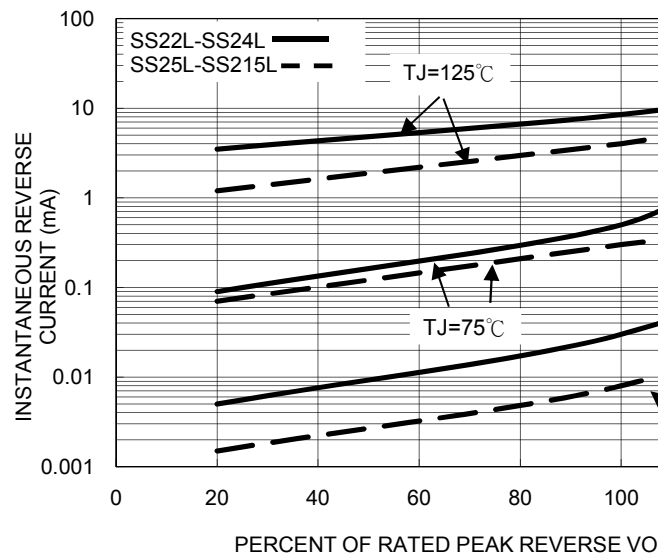
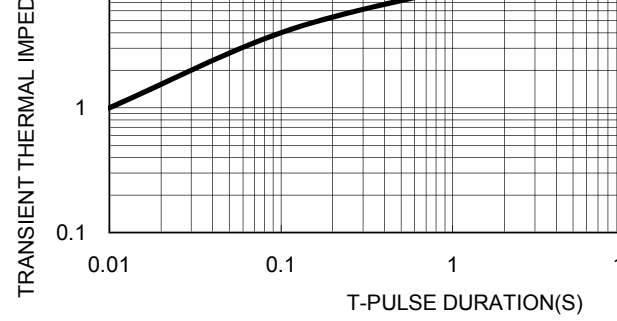
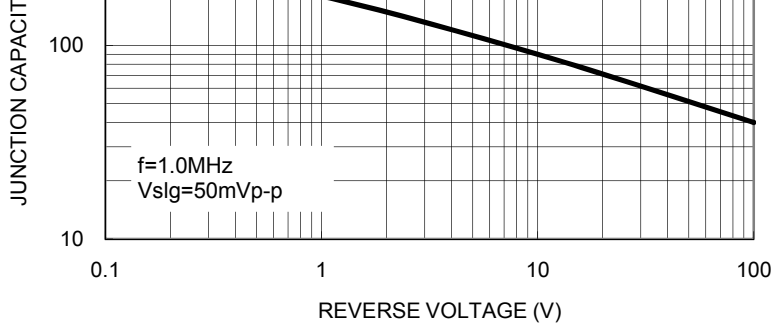
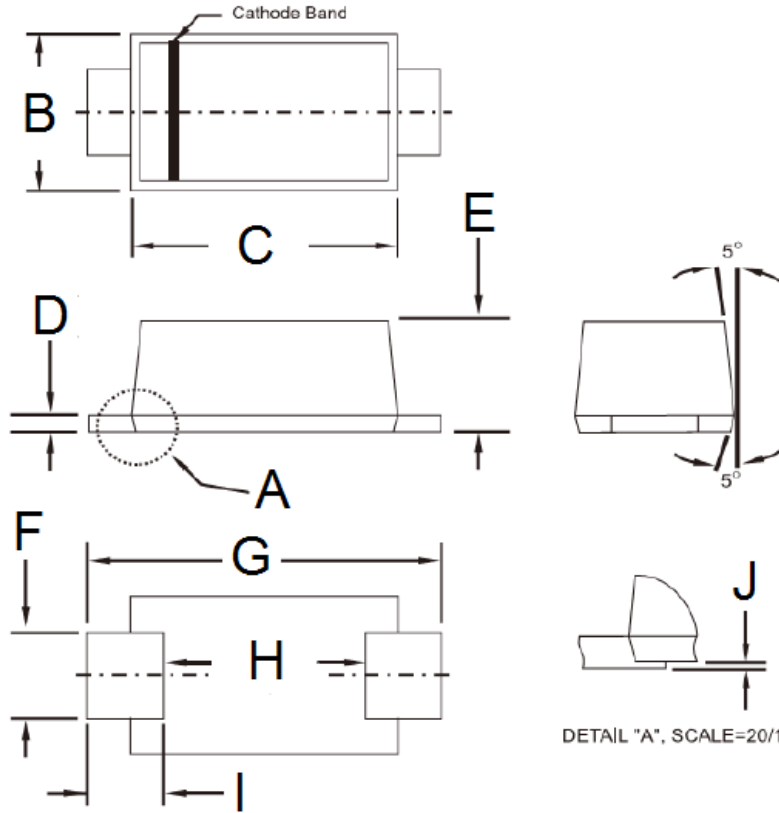


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



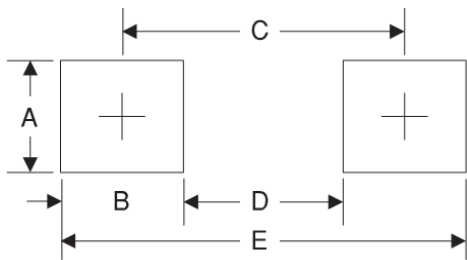


PACKAGE OUTLINE DIMENSIONS



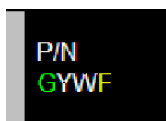
DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
B	1.70	1.90	0.067	0.075
C	2.70	2.90	0.106	0.114
D	0.16	0.30	0.006	0.012
E	1.23	1.43	0.048	0.056
F	0.80	1.20	0.031	0.047
G	3.40	3.80	0.134	0.150
H	2.45	2.60	0.096	0.102
I	0.35	0.85	0.014	0.033
J	0.00	0.10	0.000	0.004

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	1.4	0.055
B	1.2	0.047
C	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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