- Moisture sensitivity level. level 1, per 3-31 D-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: Micro SMA

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - halogen-free

**Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test **Polarity:** Indicated by cathode band **Weight:** 0.006 g (approximately)



PARAMETER	SYMBOL	SS13M	SS14M	SS1
Marking code	STIVIBUL	A A	3314W	C
	1		_	
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	40	60
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>		25	
Maximum instantaneous forward voltage (Note 1)		TYP.	MAX.	TYP.
$\textcircled{0}$ 0.5A / T <sub>J</sub> =25 $^{\circ}\mathbb{C}$	V <sub>F</sub>	0.45	-	0.51
@ 0.5A / T <sub>J</sub> =125 ℃		0.35	-	0.46
@ 1.0A / $T_J$ =25 $^{\circ}$ C		0.52	0.55	0.64
@ 1.0A / T <sub>J</sub> =125 ℃		0.46	0.50	0.57
Maximum reverse current @ rated VR		TYP.	MAX.	TYP.
@ T <sub>J</sub> =25 ℃	I <sub>R</sub>	5	50	5
@ T <sub>J</sub> =125 ℃		3	10	3
@ T <sub>J</sub> =150 ℃		5.3	-	6.7
Typical junction capacitance (Note 2)	Cj	50		40
	$R_{\theta JL}$	30		
Typical thermal resistance	$R_{ heta JC}$	40		
	$R_{\theta JA}$	125		
Operating junction temperature range	TJ	-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: Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

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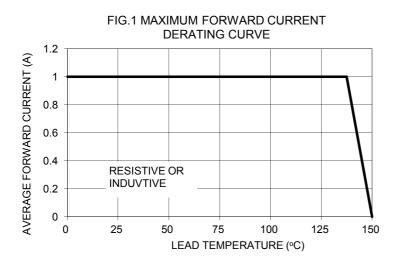
rvote 1. X defines voltage from 50 V (55 foly) to 50 V (55 foly)

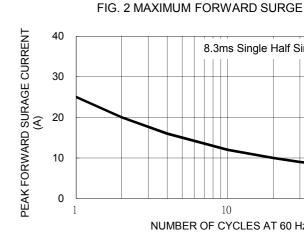
Note 2: For Micro SMA: Packing code (Whole series with green compound)

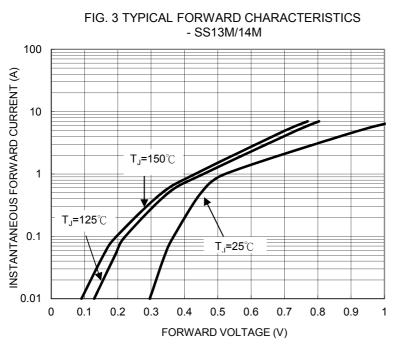
EXAMPLE				
PREFERRED P/N	DADT NO	PACKING CODE	GREEN COMPOUND	DESCRIPTION
I KEI EKKEB I M	PARTINO.	I AORING GODE	CODE	DESORII 1101
SS16M RSG	SS16M	RS	G	Green compound

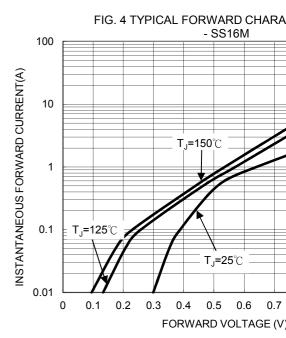
#### RATINGS AND CHARACTERISTICS CURVES

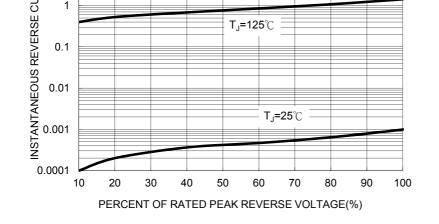
(TA=25<sup>°</sup>C unless otherwise noted)

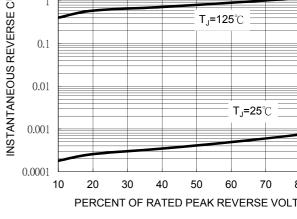


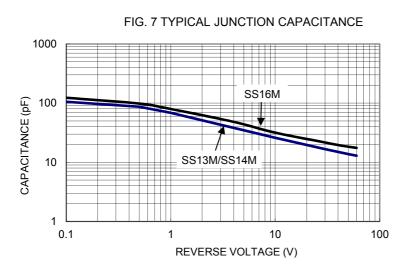


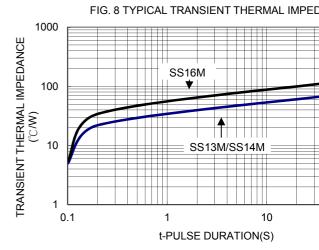






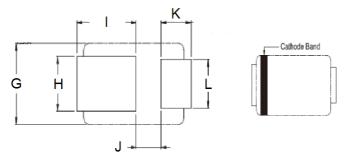






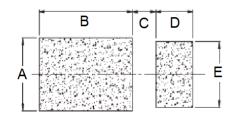
Ver





В	2.10	2.30	٥
С	0.63	0.73	0
D	0.10	0.20	0
E	1.15	1.35	0
F	0.65	0.85	0
G	1.15	1.35	0
Н	0.75	0.95	0
I	1.10	1.50	0
J	0.55	0.75	0
K	0.55	0.75	0
L	0.65	0.85	0

## **SUGGESTED PAD LAYOUT**



Symbol	Unit (mm)	Unit (incl
Α	1.1	0.043
В	2.0	0.079
С	0.5	0.020
D	0.8	0.031
Е	1.0	0.039

# **MARKING DIAGRAM**



P/N = Marking code YW = Date Code

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