



## SSCRM1DA THRU SSCRM7DA

### 1.0Amp Standard Surface Mounted Rectifiers

#### ● Features

- ✧ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ✧ Idea for printed circuit board
- ✧ Glass passivated Junction chip
- ✧ Low reverse leakage
- ✧ High forward surge current capability
- ✧ High temperature soldering guaranteed 250°C/10 seconds at terminals

#### ● PIN configuration



**SMA/DO-214AC**



**Circuit Diagram**

#### ● Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ✧ Polarity: Polarity symbol marking on body
- ✧ Mounting Position: Any



**Marking**

(M7: SSCRM7DA Marking Code)

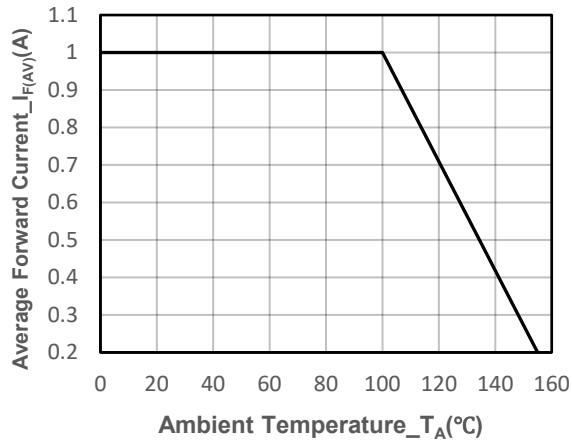
#### ● Absolute maximum rating (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	SSCR							Unit
		M1DA	M2DA	M3DA	M4DA	M5DA	M6DA	M7DA	
Maximum Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1.0							A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	30.0							A
Max Instantaneous Forward Voltage at 1.0A	V <sub>F</sub>	1.10							V
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> =100 °C	I <sub>R</sub>	5.0 500							μA
Typical Junction Capacitance (Note1)	C <sub>J</sub>	18.0							pF
Typical Thermal Resistance	R <sub>θJA</sub>	80.0							°C/W
Operating Temperature	T <sub>J</sub>	-55 ~ +150							°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150							°C

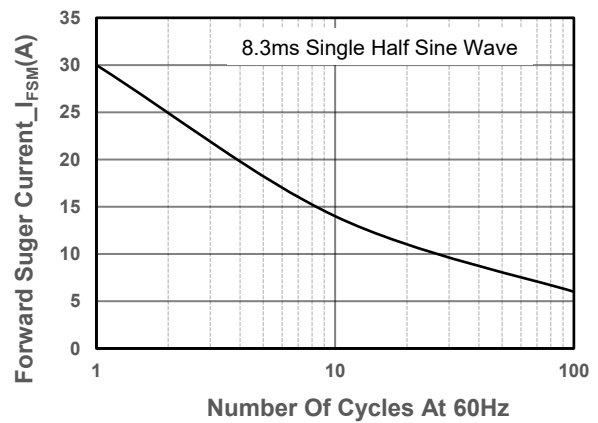
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC.



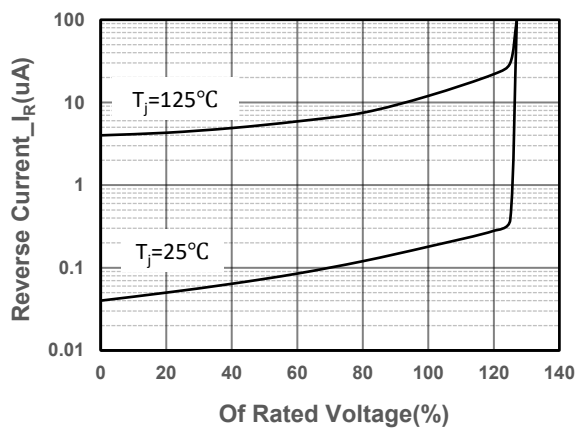
- **Typical Performance Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**



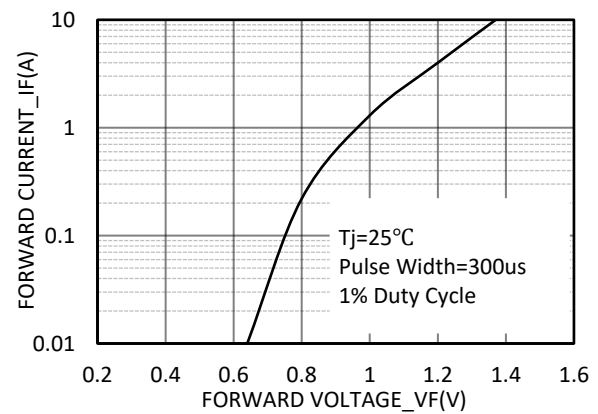
**Io -TL Curve**



**Surge Forward Current Capability Voltage**



**Typical Reverse Characteristics**



**Forward Voltage vs. Forward Current**



## ● Package Information

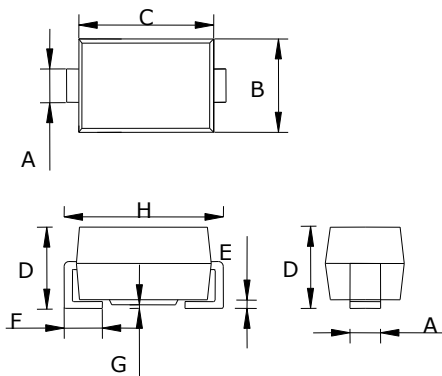
### Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCRM1DA	SMA/DO-214AC	M1	5000	11 Inch
SSCRM2DA	SMA/DO-214AC	M2	5000	11 Inch
SSCRM3DA	SMA/DO-214AC	M3	5000	11 Inch
SSCRM4DA	SMA/DO-214AC	M4	5000	11 Inch
SSCRM5DA	SMA/DO-214AC	M5	5000	11 Inch
SSCRM6DA	SMA/DO-214AC	M6	5000	11 Inch
SSCRM7DA	SMA/DO-214AC	M7	5000	11 Inch

### Mechanical Data

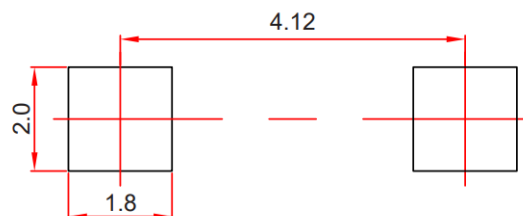
Case: SMA/DO-214AC

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters		
	Min	Nom	Max
A	1.40	1.50	1.60
B	2.50	2.67	2.90
C	4.00	4.40	4.50
D	2.00	2.25	2.45
E	0.05	0.200	0.203
F	0.76	1.14	1.52
G	-	-	0.203
H	4.90	5.0	5.30

### Recommended Pad outline (Unit: mm)





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