



SSCRGS2ADA THRU SSCRGS2MDA

2.0Amp 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 260°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

(GS2A: SSCRGS2ADA Marking Code)

● Absolute maximum rating ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	SSCRGS2							Unit
		ADA	BDA	DDA	GDA	JDA	KDA	MDA	
Maximum Peak Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0							A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	50.0							A
Max Instantaneous Forward Voltage at 1.0A	V_F	1.10							V
Maximum DC Reverse Current $T_a = 25^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 100^{\circ}\text{C}$	I_R	5.0 500							μA
Typical Junction Capacitance (Note1)	C_J	30.0							pF
Typical Thermal Resistance	$R_{\theta JA}$	80.0							$^{\circ}\text{C/W}$
Operating Temperature	T_J	-55 ~ +150							$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150							$^{\circ}\text{C}$

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)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

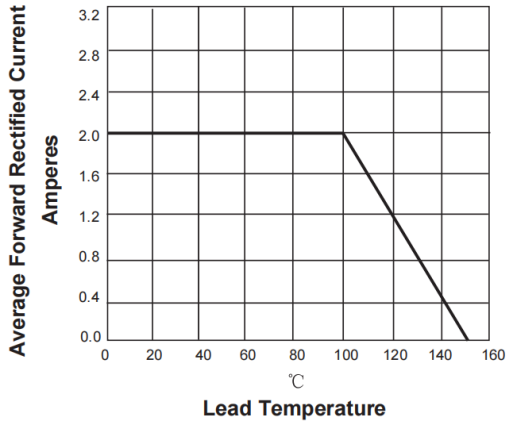


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

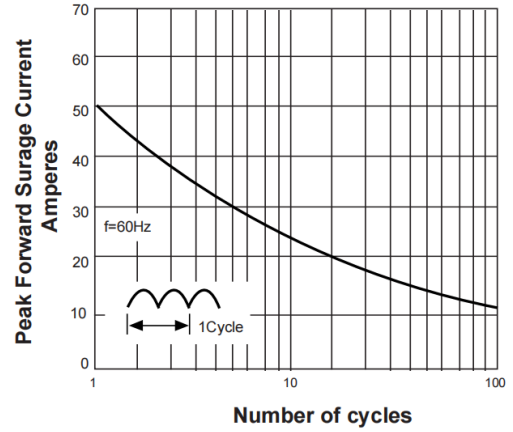


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

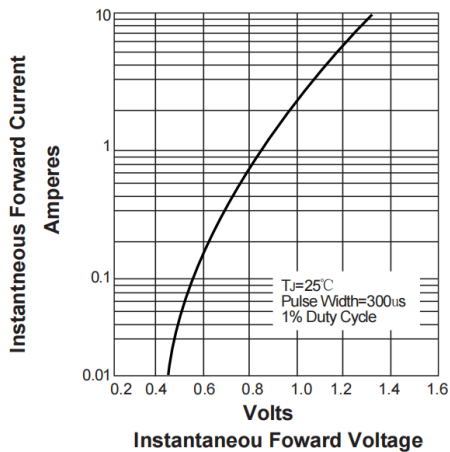
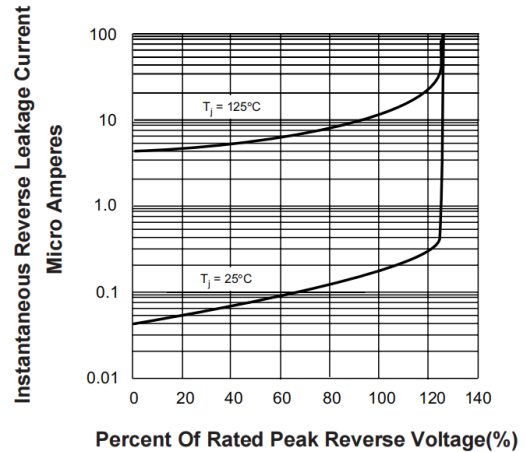


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





● Package Information

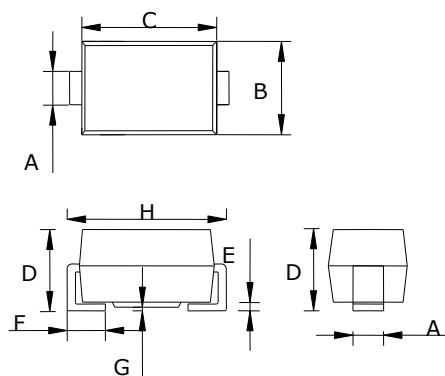
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCRGS2ADA	SMA/DO-214AC	GS2A	5000	13 Inch
SSCRGS2BDA	SMA/DO-214AC	GS2B	5000	13 Inch
SSCRGS2DDA	SMA/DO-214AC	GS2D	5000	13 Inch
SSCRGS2GDA	SMA/DO-214AC	GS2G	5000	13 Inch
SSCRGS2JDA	SMA/DO-214AC	GS2J	5000	13 Inch
SSCRGS2KDA	SMA/DO-214AC	GS2K	5000	13 Inch
SSCRGS2MDA	SMA/DO-214AC	GS2M	5000	13 Inch

Mechanical Data

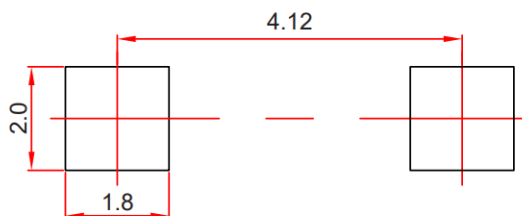
Case: SMA/DO-214AC

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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