



SSCSSS54LDA THRU SSCSSS510LDA

Schottky Barrier Diode

● Features

- ✧ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ✧ For surface mounted applications
- ✧ Built-in strain relief, ideal for automated placement
- ✧ 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

● Applications

- ✧ Low Voltage
- ✧ High-Frequency Inverters
- ✧ Free Wheeling
- ✧ Polarity Protection



Marking

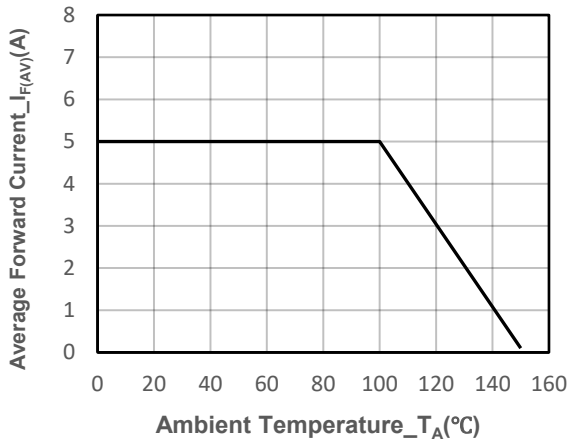
(SS54L:SSCSSS54LDA Marking Code)

● Absolute maximum rating @T_A=25°C

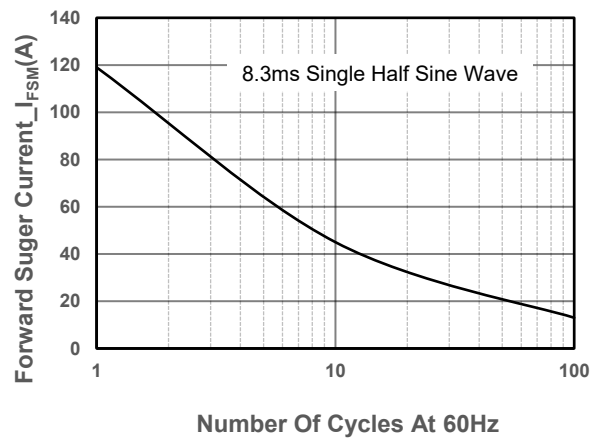
Parameter	Symbol	SSCSSS						Unit
		54LDA	54SLDA	55LDA	56LDA	58LDA	510LDA	
Maximum Peak Repetitive Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current	I _(AV)	5.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	120.0						A
Max Instantaneous Forward Voltage at 5.0 A	V _F	0.48			0.55	0.70		V
Maximum DC Reverse Current Ta = 25 °C	I _R	0.5				0.2		mA
at Rated DC Blocking Voltage Ta =125 °C		50				20		
Typical thermal resistance	R _{qJA}	80.0						°C/W
Operating Temperature	T _J	-55 ~ +150						°C
Storage Temperature	T _{STG}	-55 ~ +150						°C



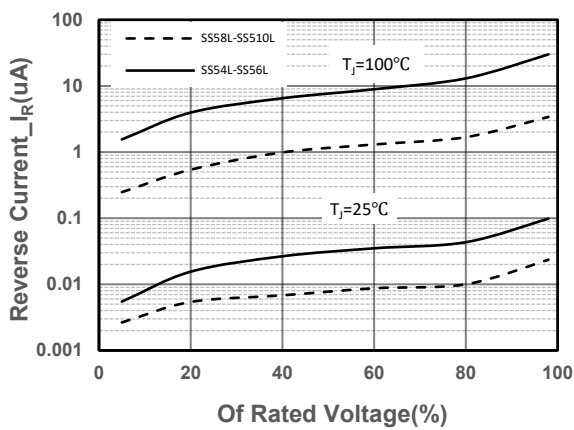
● Typical Performance Characteristics



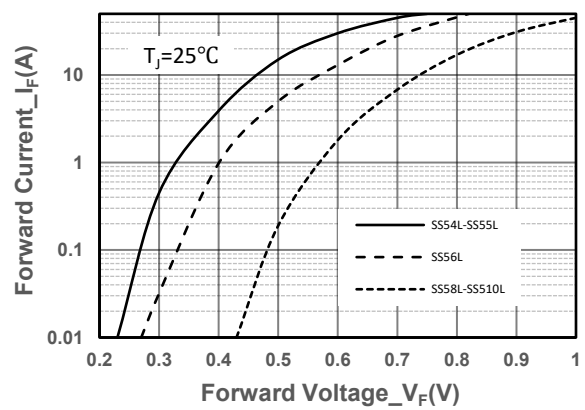
I_o -TL Curve



Surge Forward Current Capability Voltage



Typical Reverse Characteristics



Forward Voltage vs. Forward Current



● Package Information

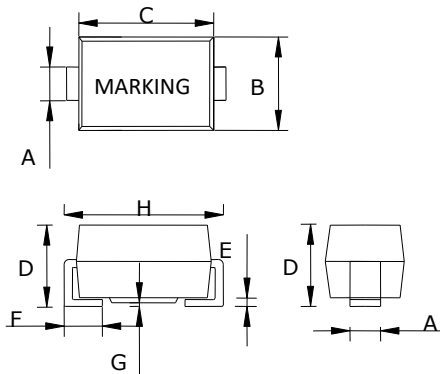
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSC SSS54LDA	SMA/DO-214AC	SS54L	5000	11 Inch
SSC SSS545LDA	SMA/DO-214AC	SS545L	5000	11 Inch
SSC SSS55LDA	SMA/DO-214AC	SS55L	5000	11 Inch
SSC SSS56LDA	SMA/DO-214AC	SS56L	5000	11 Inch
SSC SSS58LDA	SMA/DO-214AC	SS58L	5000	11 Inch
SSC SSS510LDA	SMA/DO-214AC	SS510L	5000	11 Inch

Mechanical Data

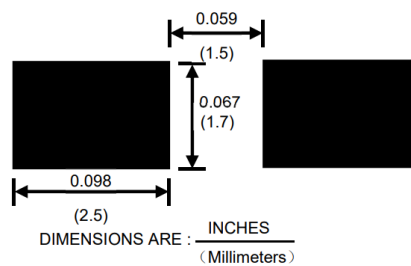
Case: SMA/DO-214AC

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





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