

SS12L~SS110L

LOW VF SURFACE MOUNT SCHOTTKY RECTIFIER

VOLTAGE 20 to 100 Volts **CURRENT** 1.0 Amperes

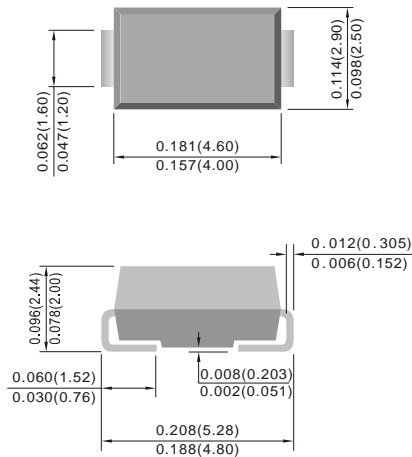


SMA / DO-214AC

Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity, low V_f
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2002/95/EC directives



MECHANICAL DATA

- Case: JEDEC SMA/DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)

MAXIMUM RATINGS($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SS12L	SS13L	SS14L	SS16L	SS18L	SS110L	LUNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	60	80	100	V
Maximum rms voltage	V_{RMS}	14	21	28	42.0	64	70	V
Maximum dc blocking voltage	V_R	20	30	40	60	80	100	V
Maximum average forward rectified current	$I_{F(AV)}$	1						A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30				30		A
Maximum thermal resistance	$R_{\theta JA}$ $R_{\theta JL}$	120 40						$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 to + 150						$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to + 150						$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_A=25^\circ\text{C}$ unless otherwise noted)

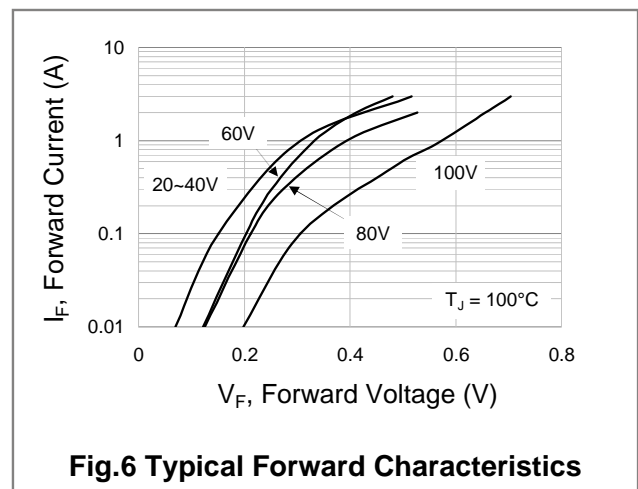
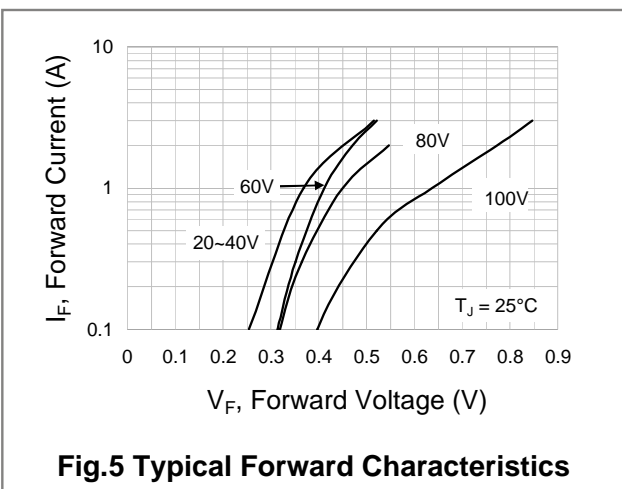
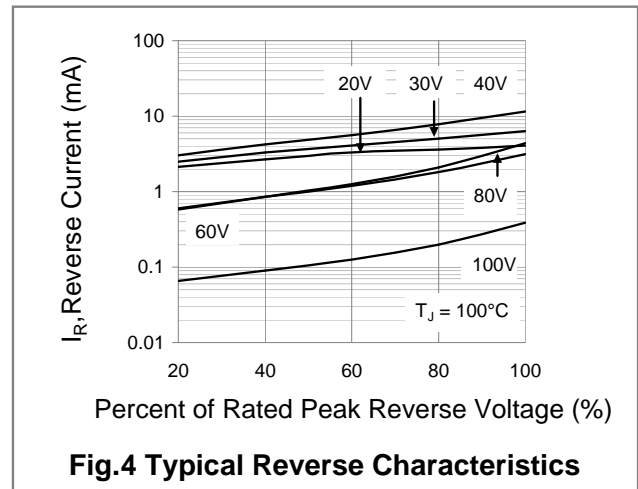
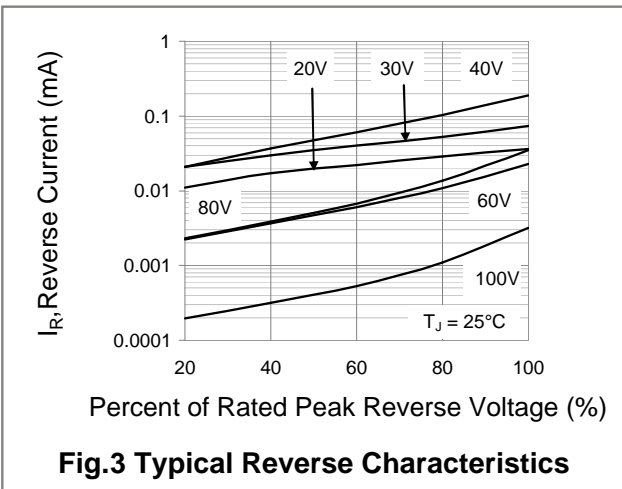
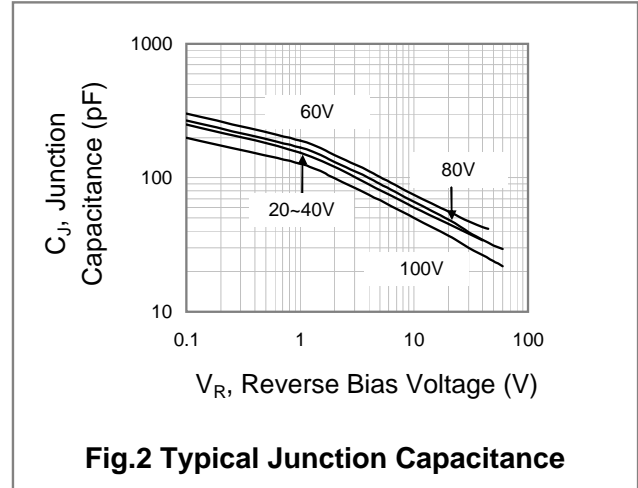
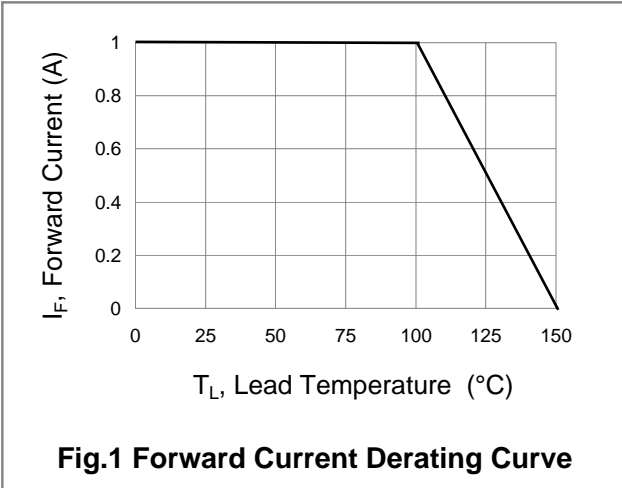
PARAMETER	SYMBOL	TEST CONDITIONS	SS12L	SS13L	SS14L	SS16L	SS18L	SS110L	UNIT
Maximum instantaneous forward voltage (Notes 1)	V_F	$I_F=1.0A$	0.45			0.55	0.70	0.73	V
Maximum reverse current at rated peak reverse voltage	I_R	$T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$	0.2 20						mA

NOTES:

1. Pulse test : 300 μs pulse width, 1% duty cycle.

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RATING AND CHARACTERISTIC CURVES



The cruve graph is for reference only, can't be the basis for judgment