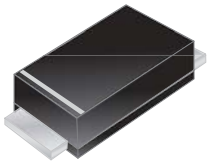
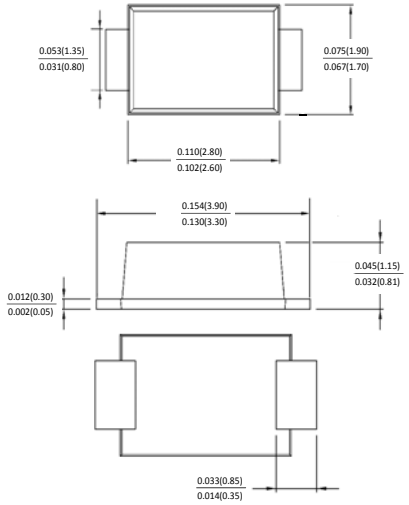
SS32L thru SS36L

Schottky Barrier Rectifiers





SOD-123F

Dimensions in inches and (millimeters)

Ordering Information	
Part Number	**Remark**
SSXL	**General**
SSXL~H	**Halogen Free**
SSXL~Q	**Automotive**

PRIMARY CHARACTERISTICS	
I_F	3A
V_{RRM}	20~60V
I_{FSM}	80A
V_F	0.52 , 0.65 V
T_J max	150°C

Features

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Forward Voltage
- RoHS Compliant Product
- AEC-Q101 qualified

Mechanical Date

- Case: SOD-123F
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.015 grams (approximate)

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS 32L	SS 33L	SS 34L	SS 36L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	60	V
Working Peak Reverse Voltage	V_{RMS}	14	21	28	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	60	V
Average Forward Current @TJ=25°C	I_F	3.0				A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	80.0				A
Maximum Instantaneous Forward Voltage TA=25°C	V_F	0.52			0.65	V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I_R	0.5 10				mA
Typical Junction Capacitance(Note 1)	C_j	100			70	pF
Typical Thermal Resistance (Note 2)	$R_{\theta Jc}$	55				°C/W
MARKING CODE		V2	V3	V4	V6	
Operating Temperature Range	T_J	-50 ~ 150				°C
Storage Temperature Range	T_{STG}	-50 ~ 150				°C

NOTES:

1. Measured at 1MHZ and applied reverse of 4V DC.

SS32L thru SS36L

Schottky Barrier Rectifiers

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

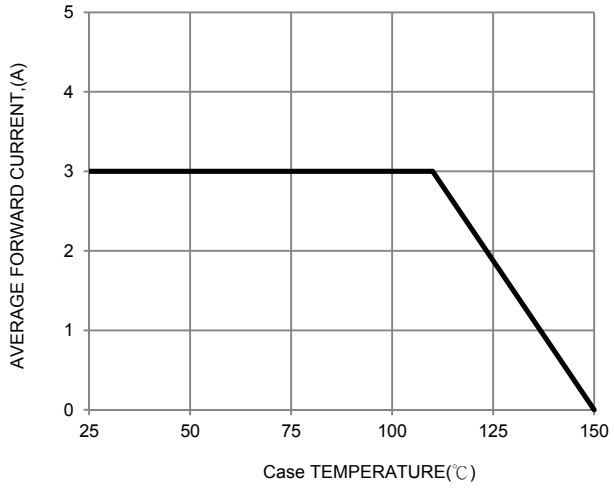


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

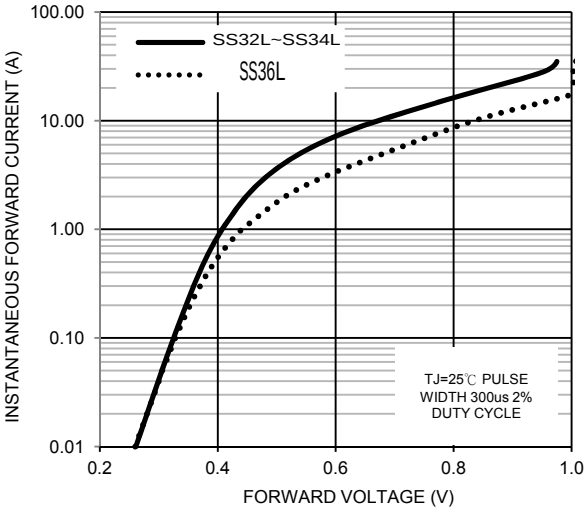


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

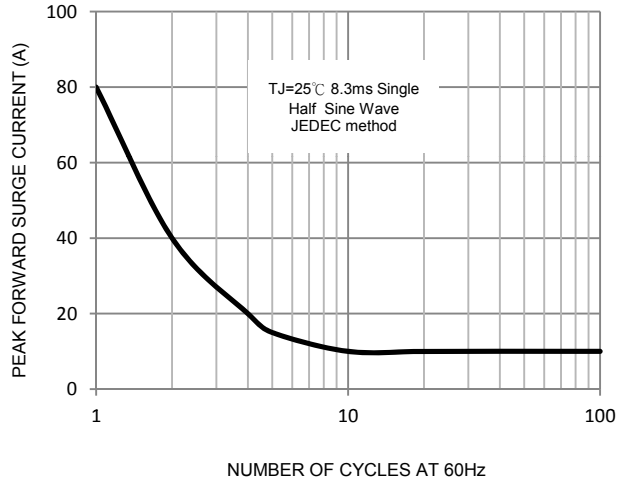


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

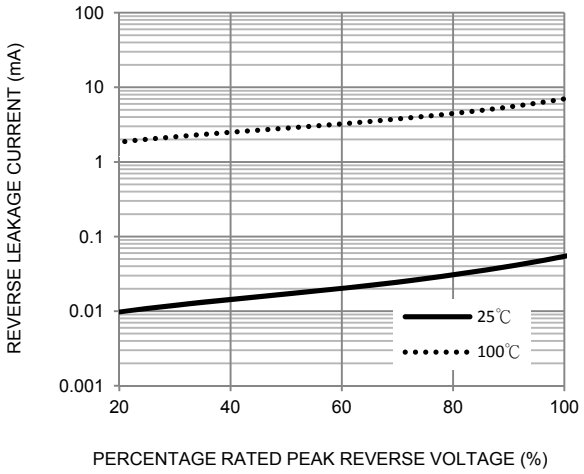


FIG. 5-TYPICAL JUNCTION CAPACITANCE