

# SS12PL~SS110PL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

<b>VOLTAGE</b>	<b>20 to 100 Volt</b>	<b>CURRENT</b>	<b>1 Ampere</b>
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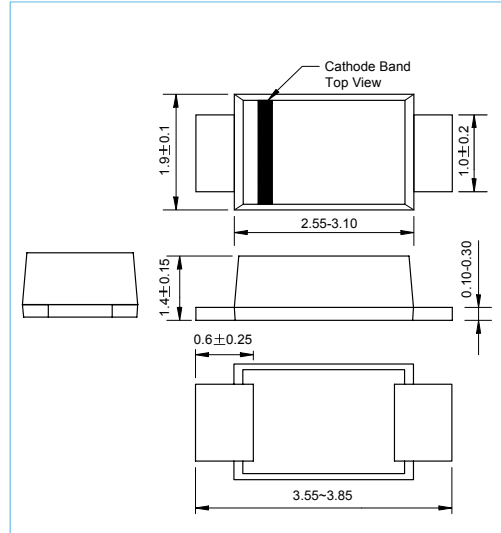
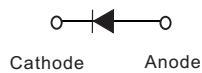
**SOD-123FL** Unit:mm

### FEATURES

- Low power loss, High efficiency
- High surge capacity
- High current capacity, low  $V_F$
- Lead free in compliance with EU RoHS 2.0

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SS12PL	SS13PL	SS14PL	SS15PL	SS16PL	SS18PL	SS110PL	UNITS	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	V	
Maximum Average Forward Current	$I_{F(AV)}$	1							A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30							A	
Maximum Forward Voltage at 1A	$V_F$	0.45	0.55	0.60	0.70		0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	$I_R$	0.1			0.5				mA	
		10			20					
Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	88			88				°C / W	
		30			28					
Typical Junction Capacitance	$C_J$	50			30				pF	
Operating Junction Temperature Range	$T_J$	125						150	°C	
Storage Temperature Range	$T_{STG}$	-55 to +150								°C

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## RATING AND CHARACTERISTIC CURVES

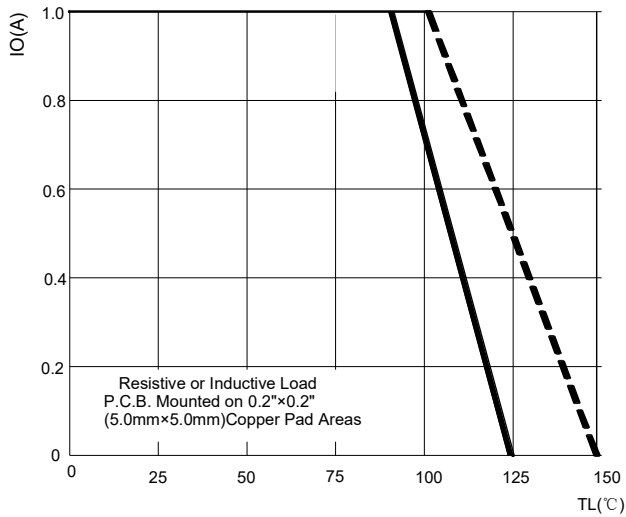


FIG.1 FORWARD CURRENT DERATING CURVE

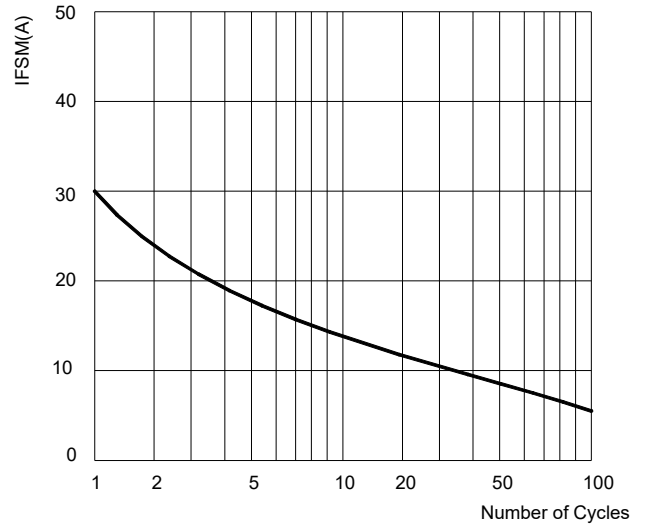


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

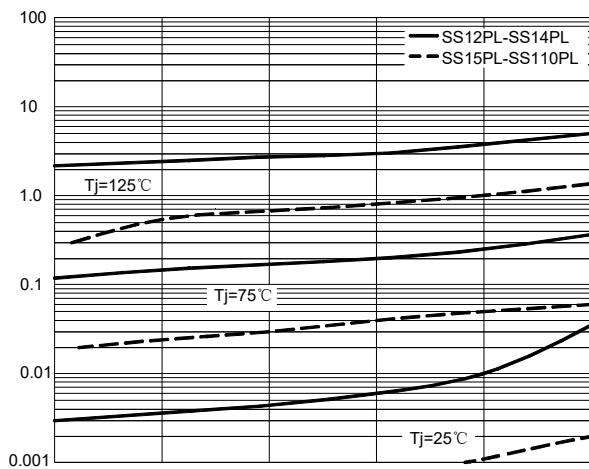


FIG.3 TYPICAL REVERSE CHARACTERISTICS

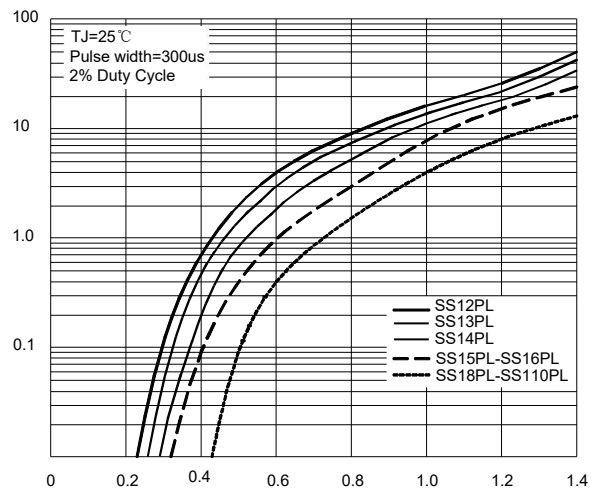


FIG.4 TYPICAL FORWARD CHARACTERISTICS

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### ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SS12PL~SS110PL	SOD-123FL	7 Inch	2500