

A1~A7

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE 50 to 1000 Volt **CURRENT** 1 Ampere

SOD-123FL

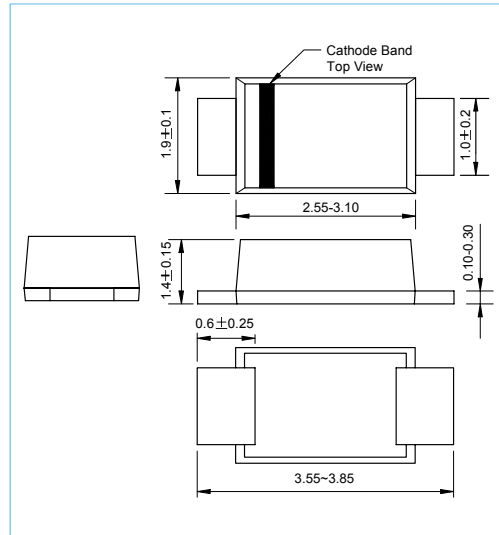
Unit:mm

FEATURES

- High efficiency,
- Low Leakage Current
- Glass Passivated Junction
- Lead free in compliance with EU RoHS

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.

PARAMETER	SYMBOL	A1	A2	A3	A4	A5	A6	A7	UNITS
Maximum Recurrent 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 Current (see FIG.1)	$I_{F(AV)}$	1							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	25							A
Maximum Forward Voltage at 1 A	V_F	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0 50							μA
Typical Junction Capacitance (Note1)	C_J	15							pF
Thermal Resistance (Note2)	$R_{\theta JA}$	50							°C / W
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt
2. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

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RATING AND CHARACTERISTIC CURVES

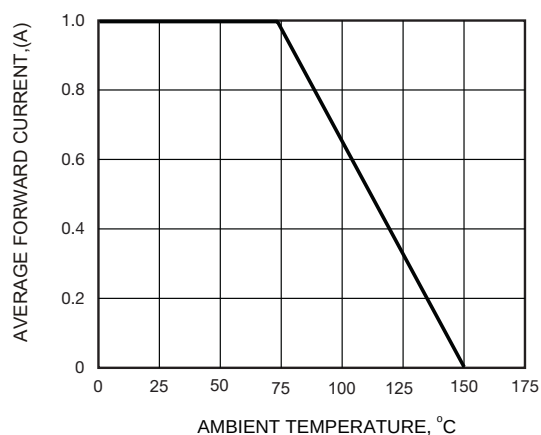


Fig. 1 Forward Current Derating Curve

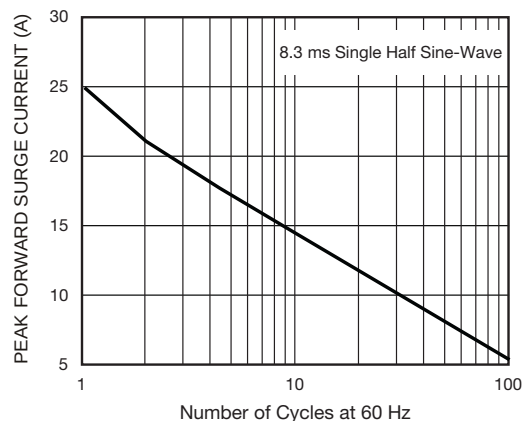


Fig. 2 Surge Current Derating Curve

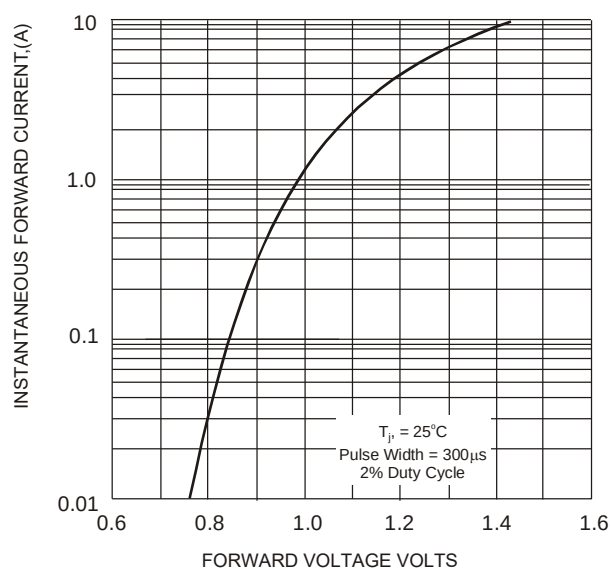


Fig. 3 Typical Forward Characteristics

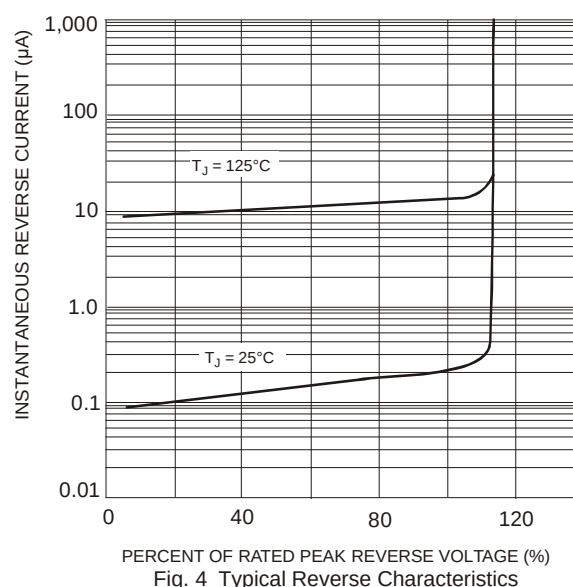


Fig. 4 Typical Reverse Characteristics

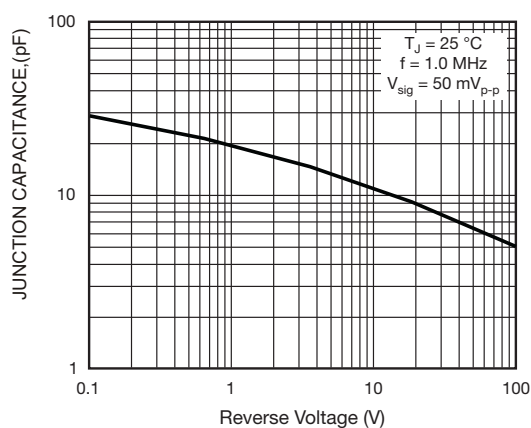


Fig. 5 Typical Junction Capacitance

A1~A7

ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
A1~A7	SOD-123FL	7 Inch	2500