

SURFACE MOUNT RECTIFIERS

REVERSE VOLTAGE: 50 - 1000 V

CURRENT: 1.0 A

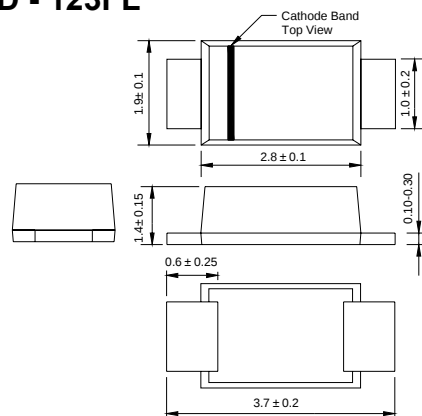
FEATURES

- Glass passivated device
- Ideal for surface mounted applications
- Low leakage current
- Metallurgically bonded construction
- High temperature soldering:
250 /10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC SOD-123FL, molded plastic over passivated chip
- Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.0008 ounces, 0.022 gram
- Mounting position: Any

SOD - 123FL



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

ABSOLUTE RATINGS

		SOD 1H1	SOD 1H2	SOD 1H3	SOD 1H4	SOD 1H5	SOD 1H6	SOD 1H7	SOD 1H8	UNITS
Device marking code		H1	H2	H3	H4	H5	H6	H7	H8	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current $T_A=65$	$I_{(AV)}$	1.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_L=25$	I_{FSM}	25								A
Maximum instantaneous (NOTE 1) forward voltage at 1.0A	V_F	1.0			1.3		1.7			V
Maximum DC reverse current @ $T_A=25$ at rated DC blocking voltage @ $T_A=125$	I_R	10 200								μA
Maximum reverse recovery time (NOTE 2)	t_{rr}	50					75			ns
Operating temperature range	T_j	- 55 --- + 150								
Storage temperature range	T_{STG}	- 55 --- + 150								

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

2. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

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FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

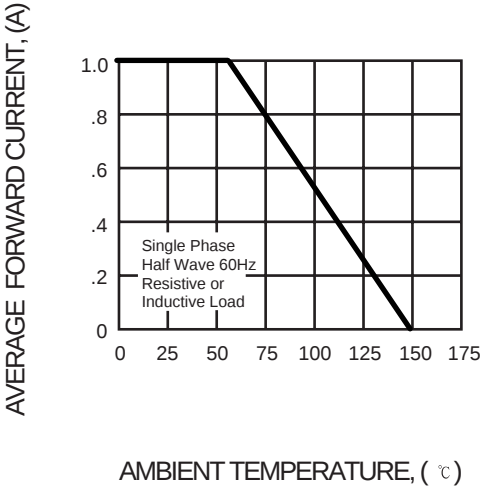


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

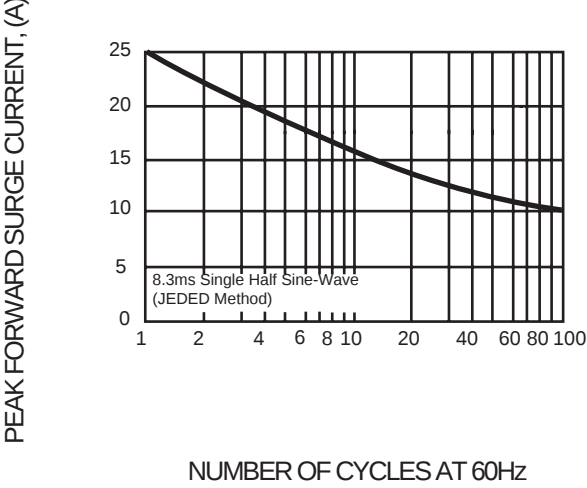


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

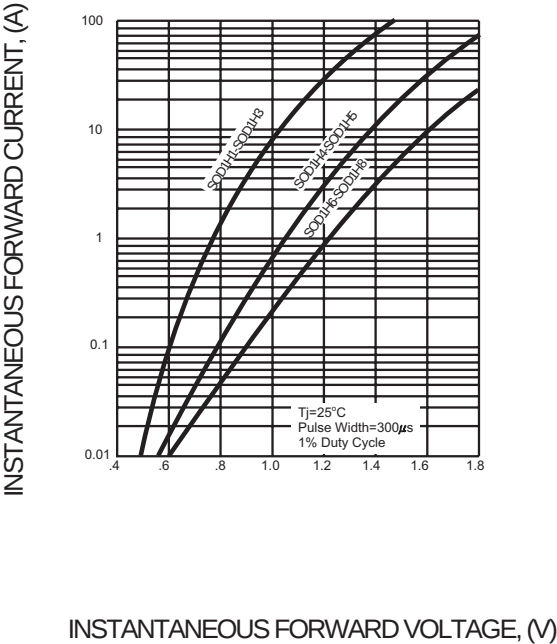


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

