鸿昕®

A1 THRU A7

Reverse Voltage -50 to 1000Volts

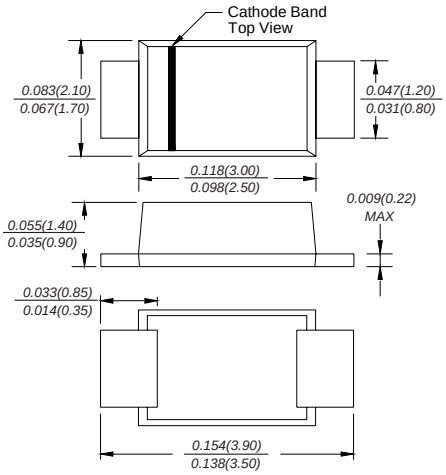
Forward Current -1.0 Ampere

Surface Mount General Purpose Silicon Rectifiers

Features

- For surface mounted applications
- Low reverse leakage
- glass Passivated Chip Juntion
- Easy to pick and place
- High temperature soldering guaranteed:260℃/10seconds at terminals

SOD-123FL



Dimensions in inches and (millimeters)

Mechanical Data

- **Case:** JEDEC SOD-123FL molded plastic body
- **Terminals:** Plated leads solderable per MIL-STD-750, Method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

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

Type Number	SYMBOL	A1	A2	A3	A4	A5	A6	A7	Units
Marking code-		A1	A2	A3	A4	A5	A6	A7	-
Maximum recurrent peak reverse voltage	V_{RM}	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 rectified output current at @TA=65℃	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0							A
Maximum instantaneous forward voltage at1.0A	V_F	1.1							V
Maximum DC reverse current @TA=25℃ At Rated DC blocking voltage @TA=100℃	I_R	5.0 100.0							uA
Typical junction capacitance (Note 1)	Cj	15.0							pF
Typical thermal resistance (Note 2)	RθJA	120.0							℃/W
Operating junction and storage temperature range	T_j,T_{STG}	-55 to +150							℃

Note: 1. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

2. P.C.B.mounted with 0.2×0.2"(5×5mm)copper pad areas.

RATINGS AND CHARACTERISTIC CURVES A1 THRU A7

Fig.1 Forward Current Derating Curve

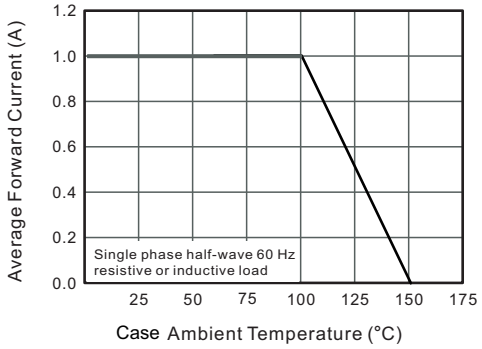


Fig.2 Typical Instaneous Reverse Characteristics

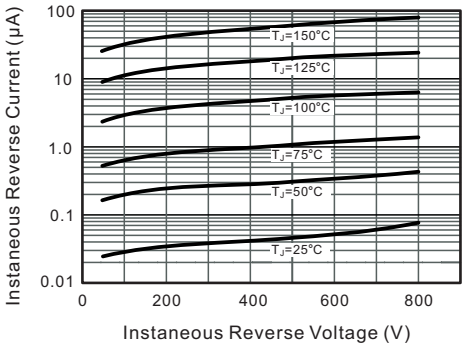


Fig.3 Typical Forward Characteristic

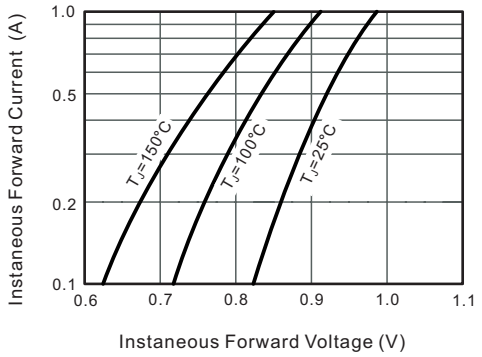


Fig.4 Typical Junction Capacitance

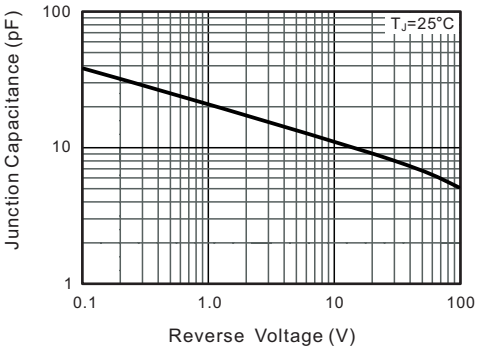
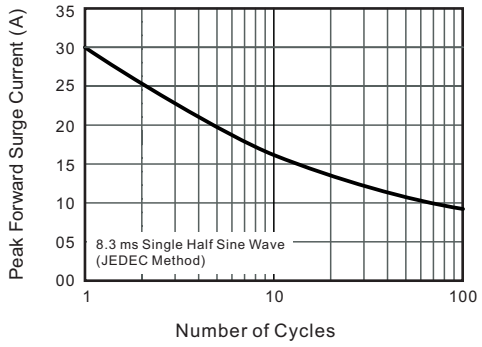
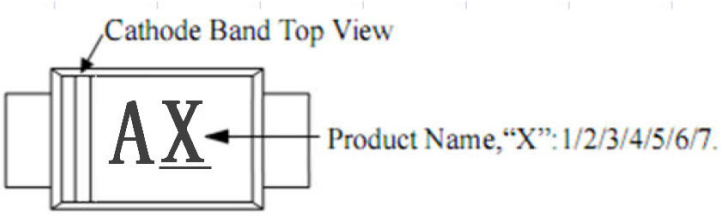


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





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