

2.0A Surface Mount Schottky Barrier Rectifiers - 20V-40V

(Pb) Lead(Pb)-Free

Features:

- * Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- * Low Surface Mounted Applications
- * Low power loss, high efficiency.
- * High current capability, low forward voltage drop.
- * Guardring for overvoltage protection.
- * High Current Capability
- * Ultra high-speed switching.
- * Silicon epitaxial planar chip, metal silicon junction.
- * Lead-free parts meet environmental standards of MIL-STD-19500 /228
- * Suffix "-H" indicates Halogen free parts, ex. SL22-M-H.

REVERSE VOLTAGE
40Volts
FORWARD CURRENT
2.0 Ampere



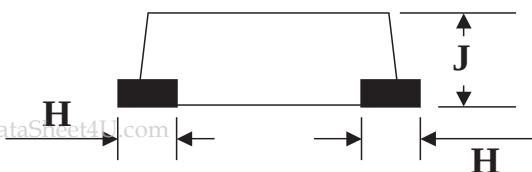
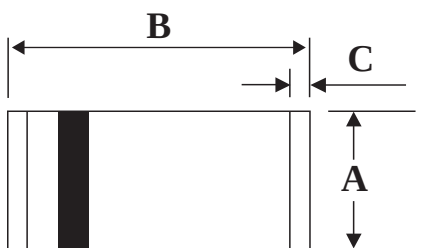
MINI-SMA
(SOD-123F)

Mechanical Data

- * Epoxy : UL94-V0 rated flame retardant
- * Case : Molded Plastic, MINI-SMA(Similar to SOD-123F)
- * Terminals : Solder Plated, Solderable per ML-STD-750 Method 2026
- * Polarity :Indicated By Cathode Band
- * Weight : 0.018 grams

MINI-SMA Outline Dimension

unit:mm



MINI-SMA

Dim	Min	Max
A	1.40	1.80
B	3.50	3.90
C	-	0.30(TYP)
H	-	0.70(TYP)
J	1.30	1.70

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Maximum Ratings and Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

Characteristics	Symbol	SL22M	SL23M	SL24M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum Continuous reverse voltage	V_R	20	30	40	V
Maximum forward voltage@ $I = 2.0A$	V_F	0.38	0.40	0.40	V
Maximum Forward rectified current	I_o	2.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50			A
Maximum Reverse Current @ $V_R = V_{RRM}$ $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	I_R	1.0 10			mA
Typical Junction Capacitance (1)	C_J	160(TYP)			pF
Typical Thermal Resistance (2)	$R_{\theta JC}$	70(TYP)			$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +125			$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 to +175			$^{\circ}C$

Device Marking

SL22M = L22 SL23M = L23 SL24M = L24

NOTES:

1. Measured at 1.0MHz applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to case.

Rating and characteristic curves (SL22M THRU SL24M)

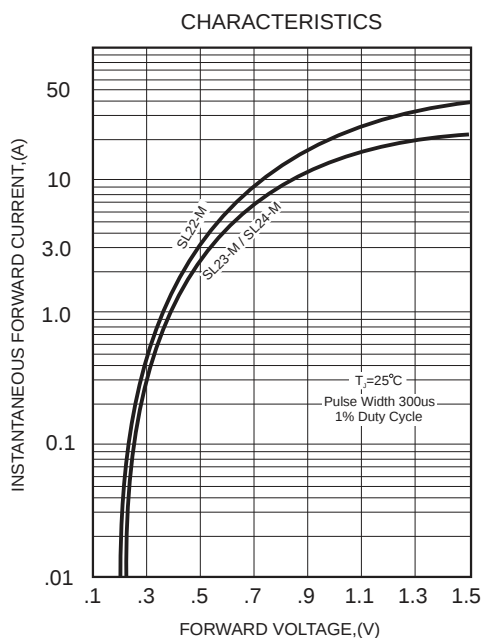


FIG.1-TYPICAL FORWARD

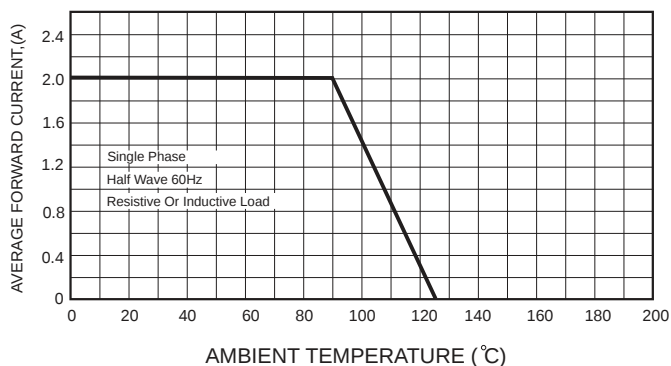


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

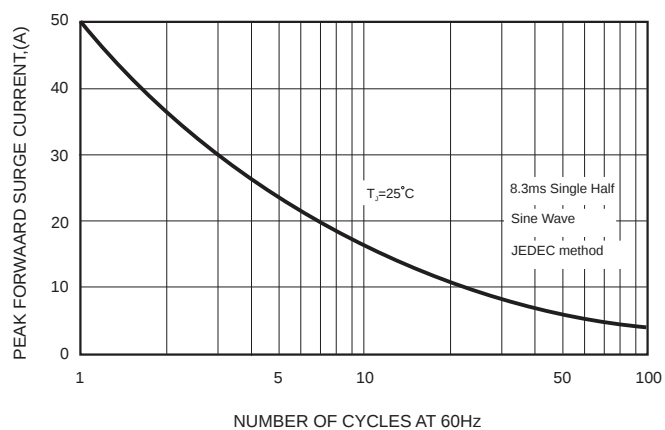


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

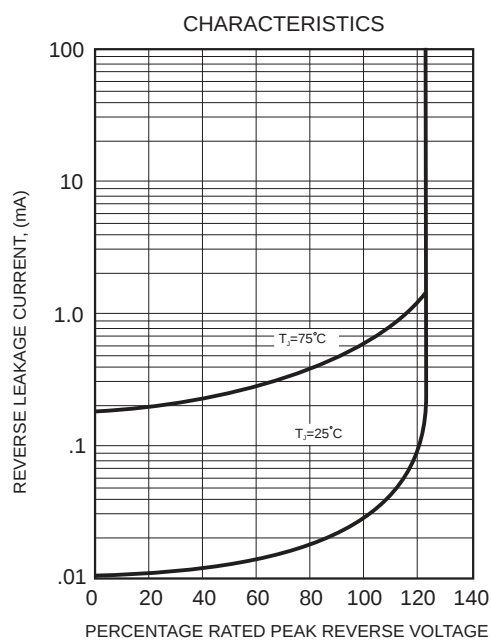


FIG.3 - TYPICAL REVERSE

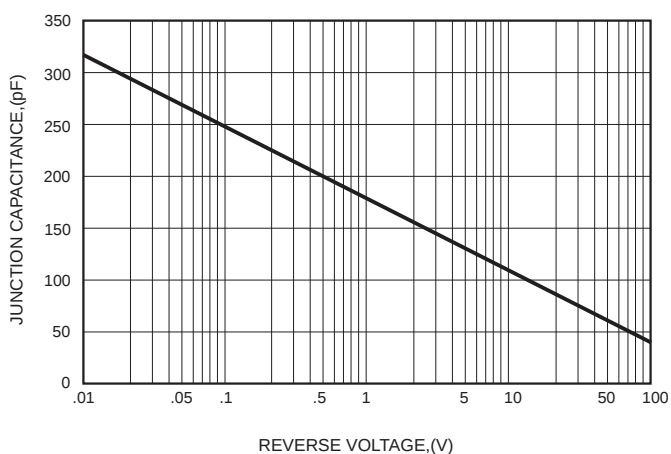


FIG.5-TYPICAL JUNCTION CAPACITANCE