

Low VF Surface Mount Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

Features:

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- * For surface mounted applications.
- * Exceeds environmental standards of MIL-S-19500 / 228.
- * Low leakage current.

Mechanical Data

- * Case : Molded Plastic, JEDECDO-214AC.
- * Terminals : Solder plated, solderable per MIL-STD-750, Method 2026.
- * Polarity : Indicated By Cathode Band.
- * Mounting Position : Any
- * Weight : 0.05 grams

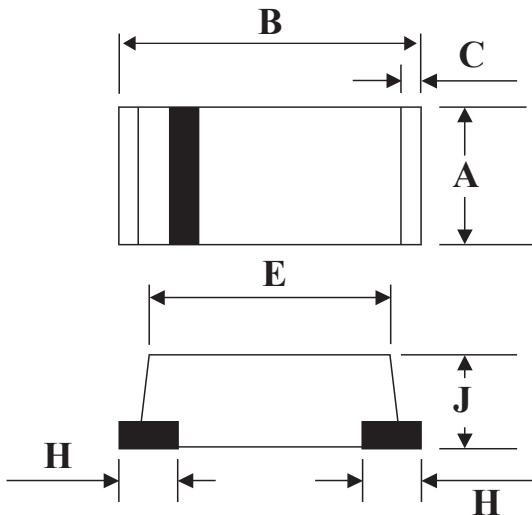
REVERSE VOLTAGE
20-40 Volts
FORWARD CURRENT
3.0 AMPERES



SMA-1

SMA-1 Outline Dimension

unit:mm



SMA-1		
Dim	Min	Max
A	2.40	2.80
B	4.40	4.80
C	-	0.30(Typ)
E	3.80	4.20
H	-	1.00(Typ)
J	1.50	1.70

Maximum Ratings and Electrical Characteristics

Characteristics	Symbol	SL32A	SL33A	SL34A	Unit
Continuous Reverse Voltage	V_R	20	30	40	V
Maximum Forward Voltage	V_F	0.38	0.40	0.40	V
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
RMS Voltage	V_{RMS}	14	21	28	V
Forward Rectified Current See Fig.2	I_O	3.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80			A
Maximum DC Reverse Current $V_R = V_{RRM}$ @ $T_A = 25^\circ\text{C}$ $V_R = V_{RRM}$ @ $T_A = 100^\circ\text{C}$	I_R	1.0 10			mA
Typical Thermal Resistance	$R_{\theta JA}$	50(Typ)			$^\circ\text{C/W}$
Typical Junction Capacitance $f = 1\text{MHz}$ and applied 4VDC reverse voltage	C_J	300(Typ)			pF
Operating Temperature Range	T_j	-55 to +125			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150			$^\circ\text{C}$

Device Marking

Item	Marking
SL32A	SL32
SL33A	SL33
SL34A	SL34

RATING AND CHARACTERISTIC CURVES

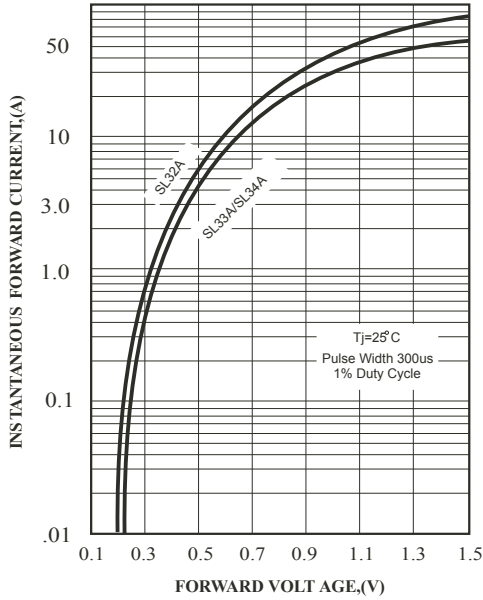


FIG.1-TYPICAL FORWARD CHARACTERISTICS

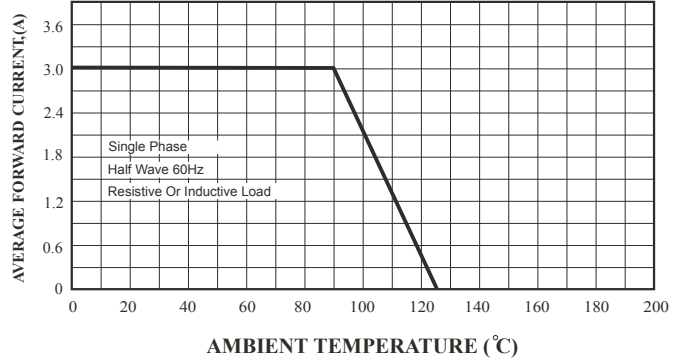


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

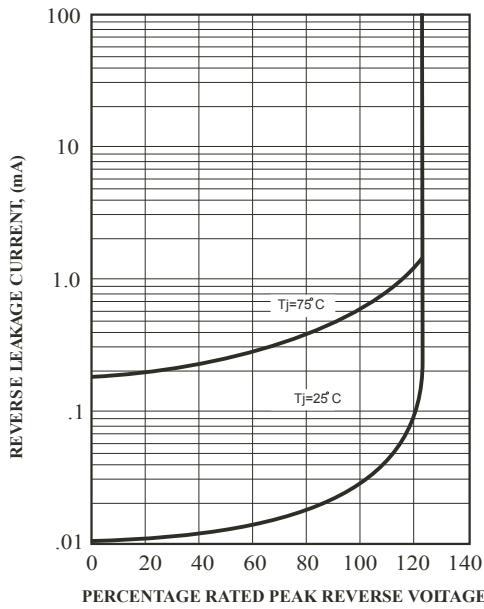


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

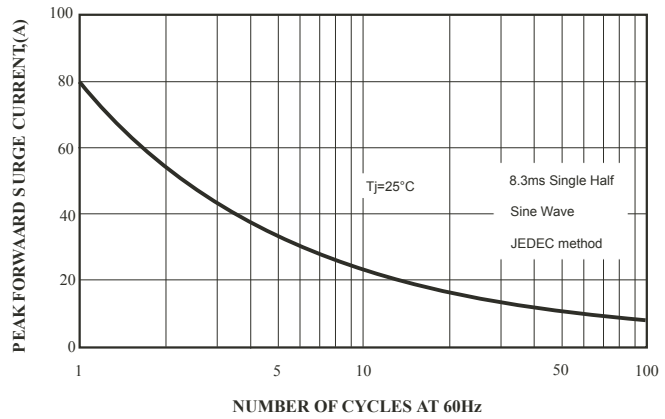


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

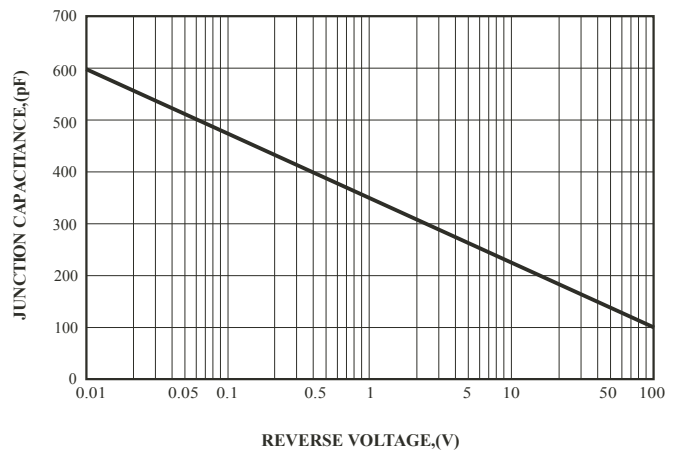


FIG.5-TYPICAL JUNCTION CAPACITANCE