WEITRON

SL32A Thru SL34A

Low VF Surface Mount
Schottky Barrier Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
20-40 Volts
FORWARD CURRENT
3.0 AMPERES



SMA-1

Features:

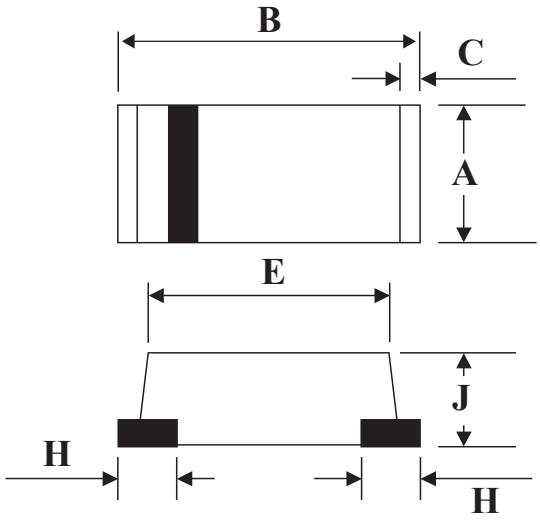
* Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
* For surface mounted applications.
* Exceeds environmental standards of MIL-S-19500 / 228.
* Low leakage current.

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

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 VR = VRRM @T_A=25˚C VR = VRRM @TA=100˚C	I_R	1.0 10			mA
Typical Thermal Resistance	$R_{\theta JA}$	50(Typ)			˚C/W
Typical Junction Capacitance f=1MHz and applied 4VDC reverse voltage	C_J	300(Typ)			pF
Operating Temperature Range	T_j	-55 to+125			˚C
Storage Temperature Range	T_{STG}	-55 to+150			˚C

Device Marking

Item	Marking
SL32A SL33A SL34A	SL32 SL33 SL34

RATING AND CHARACTERISTIC CURVES

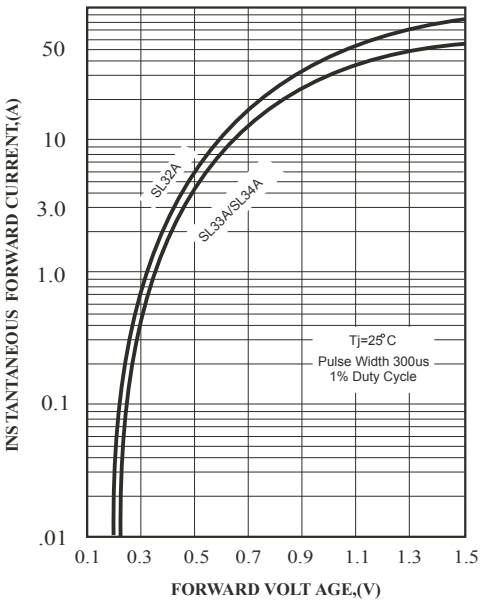


FIG.1-TYPICAL FORWARD CHARACTERISTICS

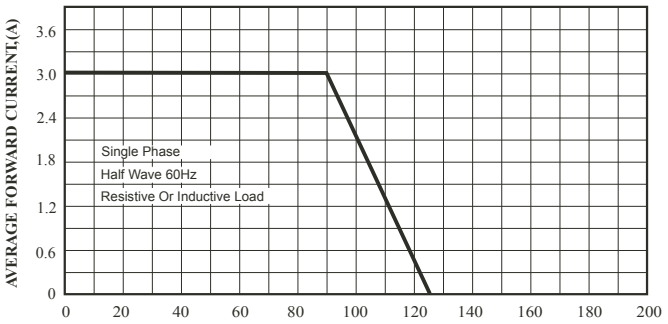


FIG.2-TYPICAL FORWARD CURRENT DERA TING CURVE

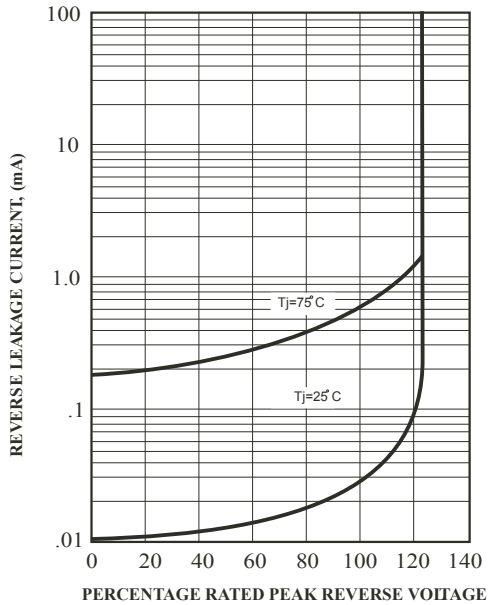


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

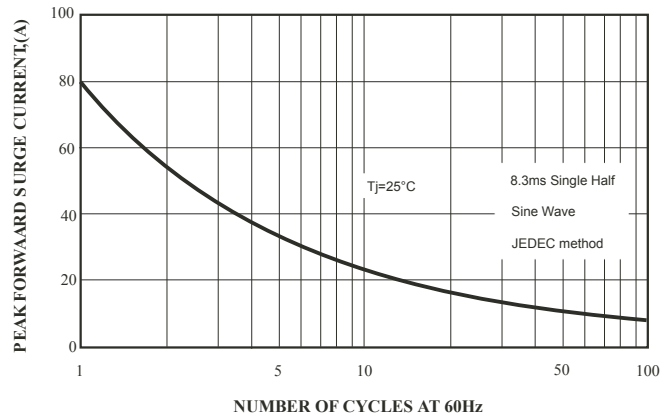


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

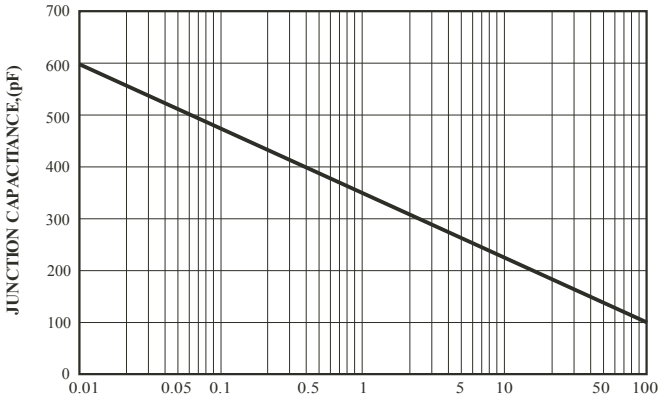


FIG.5-TYPICAL JUNCTION CAPACITANCE