

Low VF Schottky Barrier Diodes

(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, SOD-323F
- * Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- * Polarity : Indicated by cathode band
- * Mounting Position : Any
- * Weight: 0.004grams(approx)

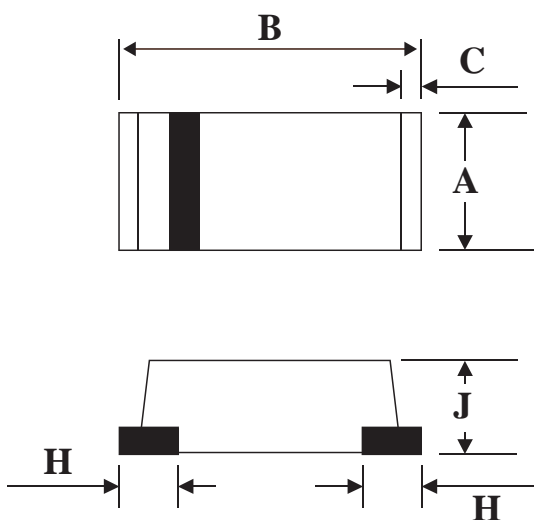
REVERSE VOLTAGE
20-40 Volts
FORWARD CURRENT
1000 mAmpere



SOD-323F

SOD-323F Outline Dimension

unit:mm



SOD-323F		
Dim	Min	Max
A	1.05	1.45
B	2.30	2.70
C	-	0.30(TYP)
H	-	0.40(TYP)
J	0.80	1.20

MAXIMUM RATING

Characteristics	Symbol	SL12N	SL13N	SL14N	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Continuous Reverse Voltage	V_R	20	30	40	V
Maximum Instantaneous@ $T_A=25^\circ\text{C}$	V_F	0.38	0.4		V
Maximum Average Forward (Fig.1)	I_O	1.0			A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30			A
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	0.5 10			mA
Typical Thermal Resistance	$R_{\theta JA}$	80(TYP)			$^\circ\text{C}/\text{W}$
Typical Junction Capacitance	C_J	130(TYP)			pF
Operating Temperature Range	T_J	-55 to +125			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +175			$^\circ\text{C}$

Device Marking

SL12N=L2 , SL13N=L3 , SL14N=L4

RATING AND CHARACTERISTIC CURVES

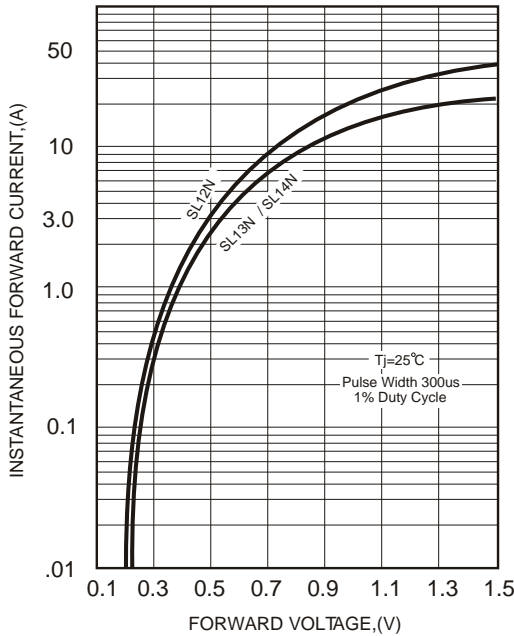


FIG.1-TYPICAL FORWARD CHARACTERISTICS

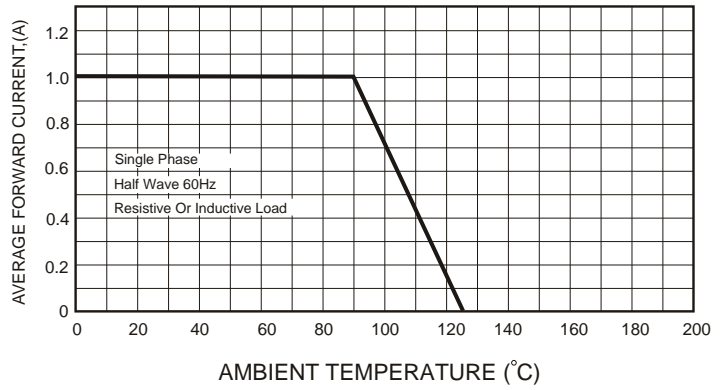


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

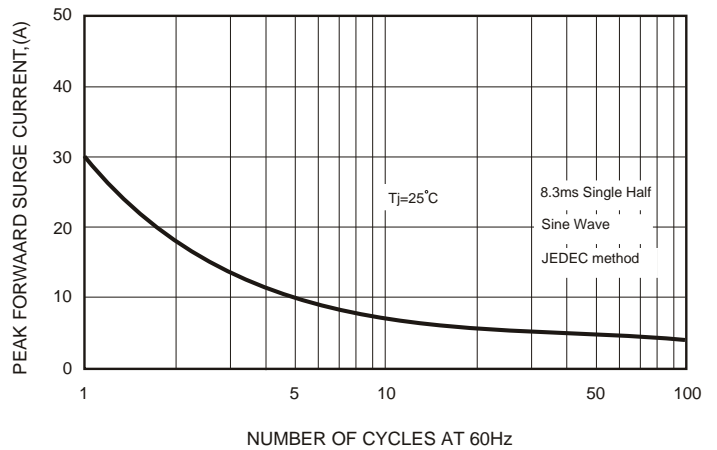


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

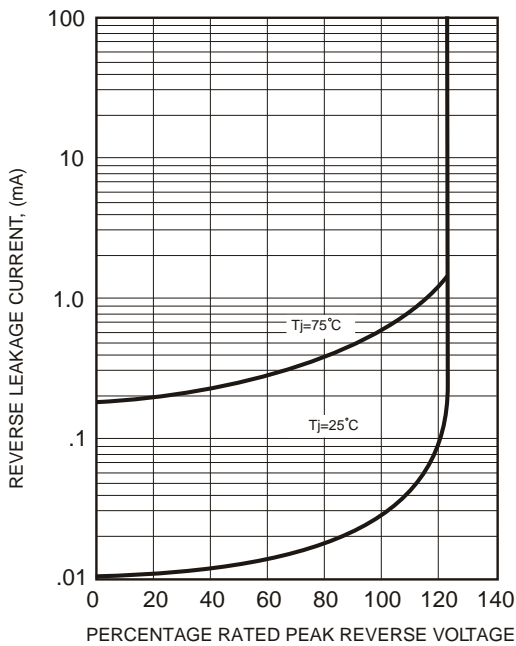


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

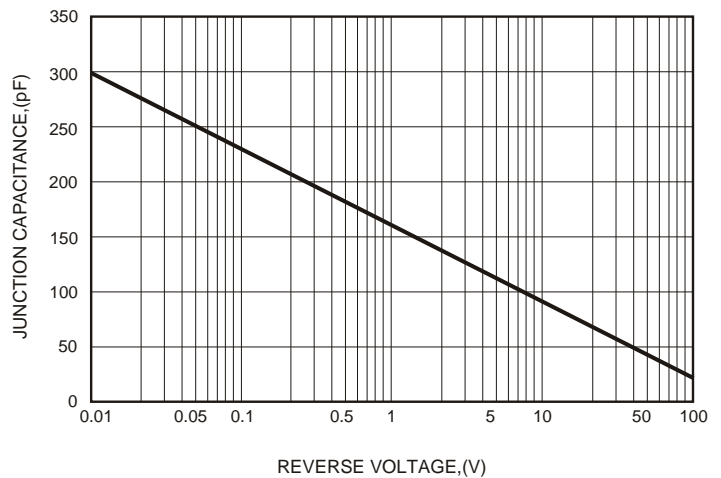


FIG.5-TYPICAL JUNCTION CAPACITANCE