WEITRON

SL12N thru SL14N

Low VF Schottky Barrier Diodes

Lead(Pb)-Free

REVERSE VOLTAGE
20-40 Volts
FORWARD CURRENT
1000 mAmpere

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.

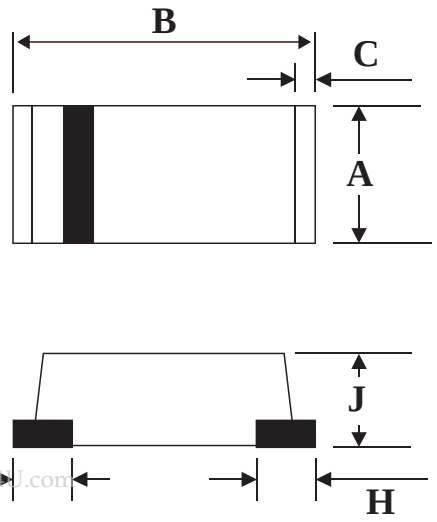
SOD-323F

Mechanical Data:

* Case : Molded plastic, SOD-323F
* Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
* Polarity : Indicated by c athode band
* Mounting Position : Any
* Wight: 0.004grams(approx)

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°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°C At Rated DC Blocking Voltage @T_A=125°C	I_R	0.5 10			mA
Typical Thermal Resistance	$R_{\theta JA}$	80(TYP)			°C/W
Typical Junction Capacitance	C_J	130(TYP)			pF
Operating Temperature Range	T_J	-55 to +125			°C
Storage Temperature Range	T_{STG}	-65 to +175			°C

Device Marking

SL12N=L2 , SL13N=L3 , SL14N=L4

RATING AND CHARACTERISTIC CURVES

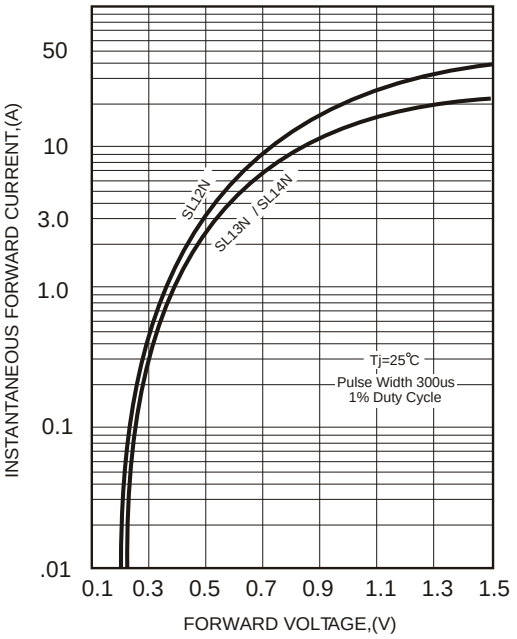


FIG.1-TYPICAL FORWARD CHARACTERISTICS

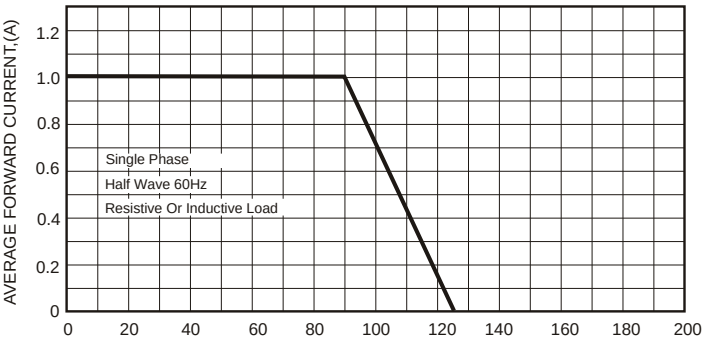


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

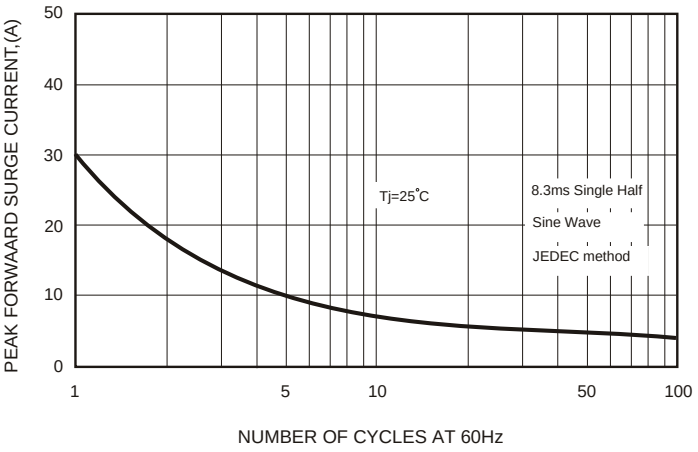


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

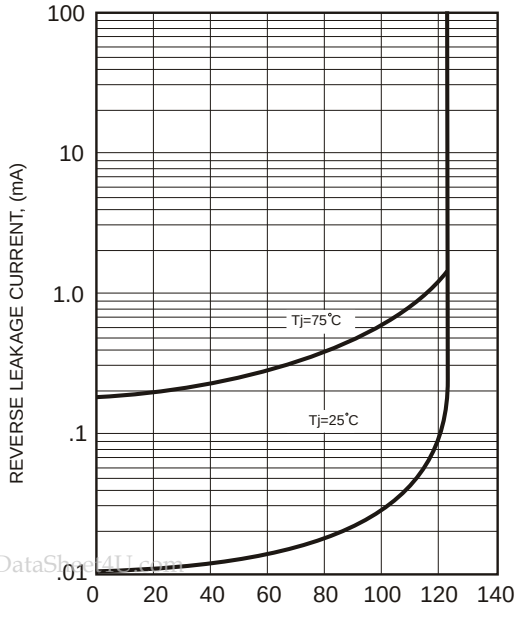


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

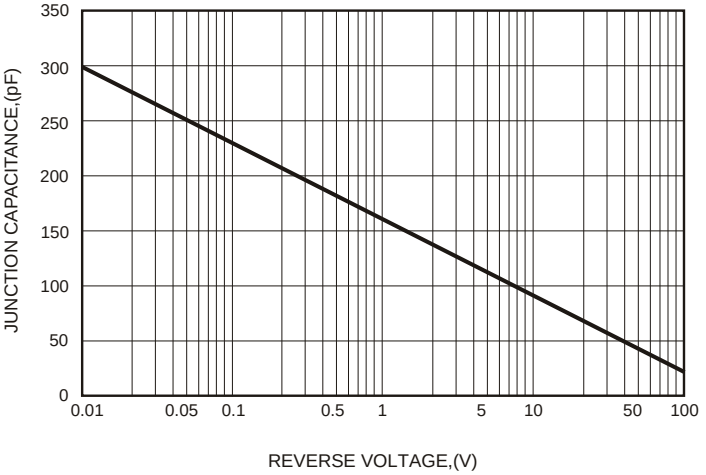


FIG.5-TYPICAL JUNCTION CAPACITANCE