

Surface Mount 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)

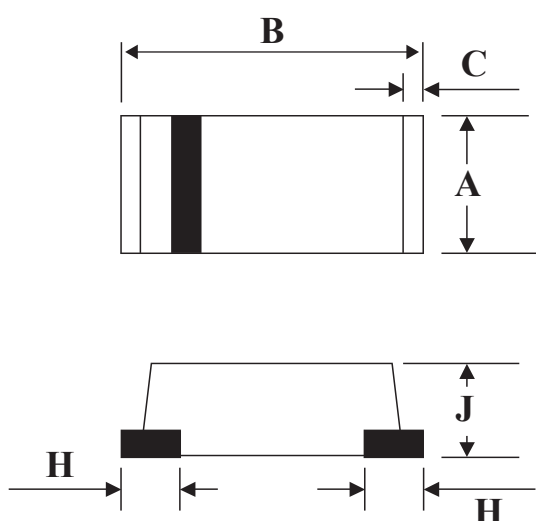
REVERSE VOLTAGE
20-60 Volts
FORWARD CURRENT
500 mAmpere



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	B0520N	B0530N	B0540N	B0550N	B0560N	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Continuous Reverse Voltage	V_R	20	30	40	50	60	V
Maximum Instantaneous@ $T_A=25^{\circ}\text{C}$	V_F	0.5					V
Maximum Average Forward (Fig.1)	I_O	0.5					A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	15					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	$R_{\theta JA}$	90(TYP)					$^{\circ}\text{C/W}$
Typical Junction Capacitance	C_J	120(TYP)					pF
Operating Temperature Range	T_J	+150					$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to+150					$^{\circ}\text{C}$

Device Marking**B0520N=A , B0530N=B , B0540N=C , B0550N=D , B0560N=E**

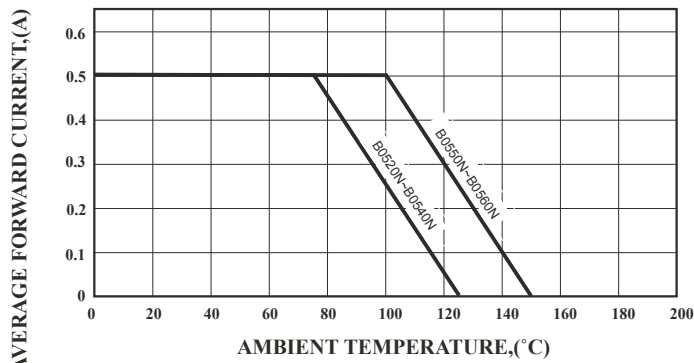


FIG.1 Typical Forward Current Derating Curve

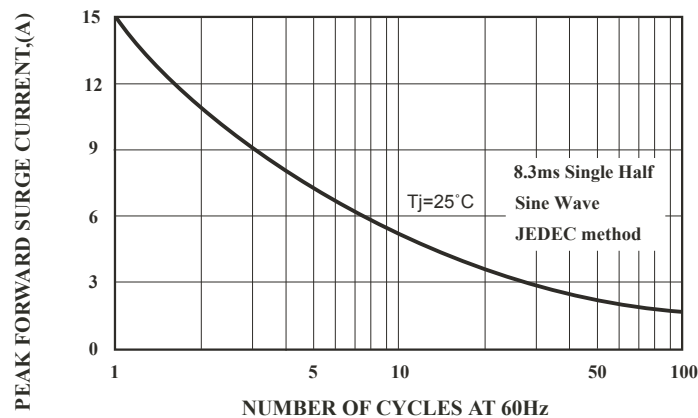


FIG.3 Maximum Non-Repetitive Forward Surge Current

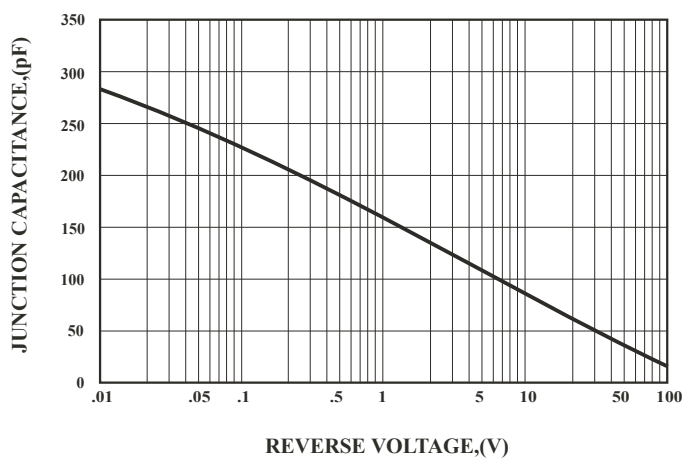


FIG.4 Typical Junction Capacitance

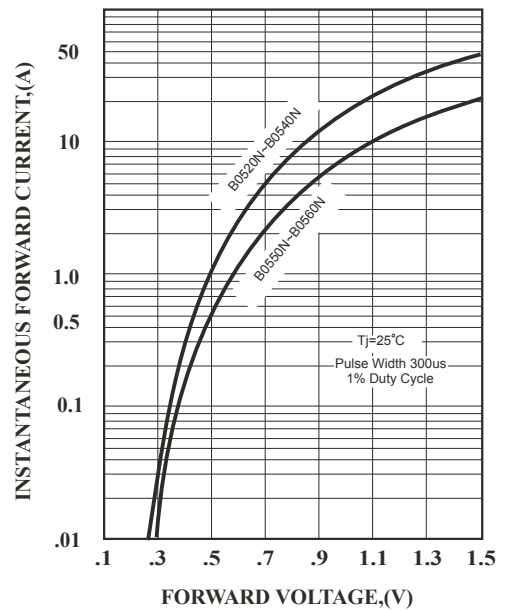


FIG.2 Typical Forward Characteristics

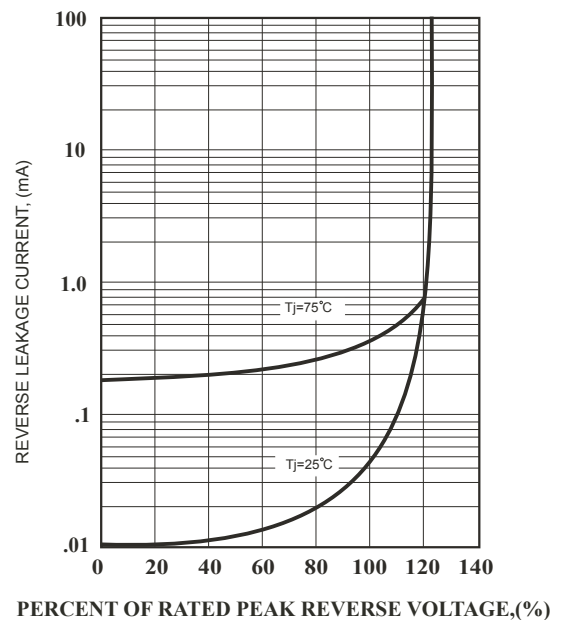


FIG.5 Typical Reverse Characteristics