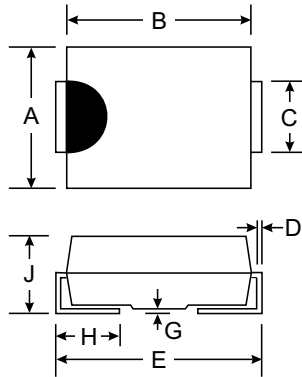


Features

- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: SMA, Molded Plastic
- Terminals: Solder Plated Terminal - Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Weight: 0.064 grams (approx.)
- Marking: B130L



SMA		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	B130L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Blocking Voltage @ I _R = 1mA	V _{RRM} V _{RWM} V _R	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
Average Rectified Output Current @ T _T = 105°C	I _O	1.0	A
Peak Repetitive Forward Current (Note 2)	I _{FRM}	2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	25	A
Forward Voltage @ I _F = 1.0A, T _J = 25°C @ I _F = 2.0A, T _J = 25°C @ I _F = 1.0A, T _J = 100°C @ I _F = 2.0A, T _J = 100°C	V _{FM}	0.41 0.47 0.35 0.43	V
Peak Reverse Current @ V _R = 15V, T _A = 25°C @ V _R = 30V, T _A = 25°C @ V _R = 15V, T _A = 100°C @ V _R = 30V, T _A = 100°C	I _{RM}	0.4 1.0 12 25	mA
Typical Junction Capacitance (Note 1)	C _j	110	pF
Typical Thermal Resistance Junction to Terminal	R _{θJT}	27	K/W
Operating Temperature Range	T _j	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. At Rated V_R, Square Wave, 25KHz, T_C = 40°C.

