B16WS-B110WS

1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
60-100 Volts

CURRENT
1.0 Ampere

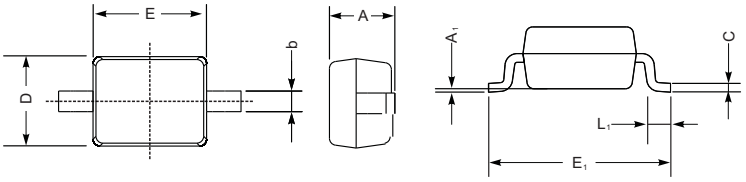
FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

MECHANICAL DATA

* Case: Molded plastic
* Lead: Axial leads, solderable per MIL-STD-750, method 2026
* Polarity:Polarity symbols marked on case
* Marking: B16- B110

SOD323



UNIT		A	C	D	E	E_1	b	L_1	A_1
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	B16WS	B110WS	UNITS
Maximum Recurrent Peak Reverse Voltage	60	100	V
Maximum RMS Voltage	42	70	V
Maximum DC Blocking Voltage	60	100	V
Maximum Average Forward Rectified Current See Fig. 1	1.0		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	25		A
Maximum Instantaneous Forward Voltage at 1.0A	0.7	0.85	V
Maximum DC Reverse Current Ta=25℃	0.02		mA
at Rated DC Blocking Voltage Ta=100℃	5		mA
Typical Junction Capacitance (Note1)	30		pF
Typical Thermal Resistance R JA (Note 2)	400		℃/W
Operating Temperature Range T_J	-65 —+150		℃
Storage Temperature Range T_{STG}	-65 — +150		℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (B16WS-B110WS)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

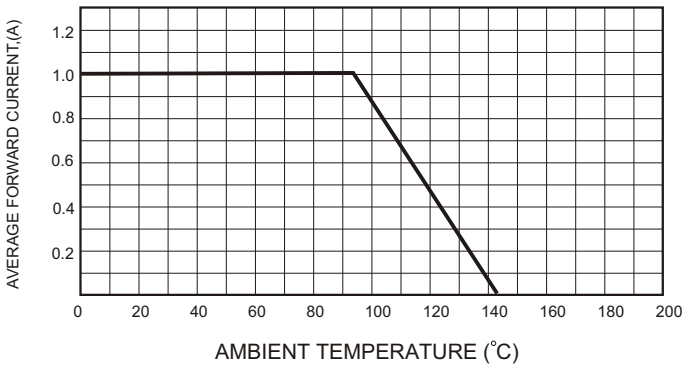


FIG.2-TYPICAL FORWARD CHARACTERISTICS

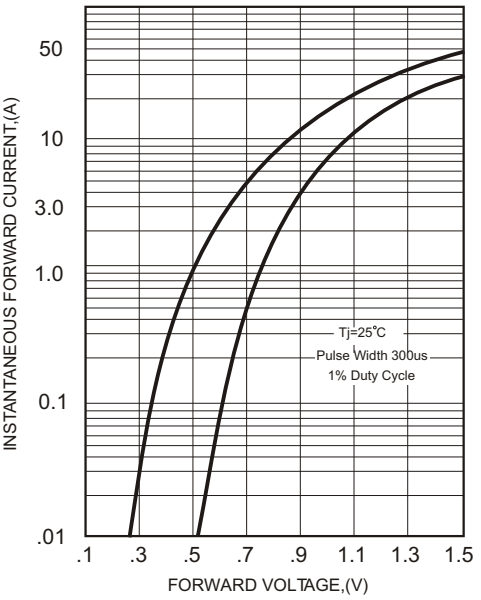


FIG.3 - **Power Derating Curve**

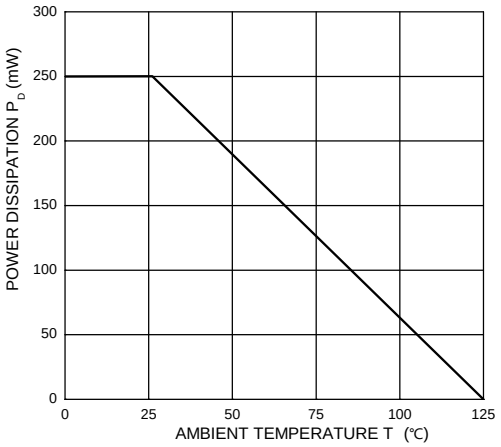


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FIG.4-TYPICAL JUNCTION CAPACITANCE

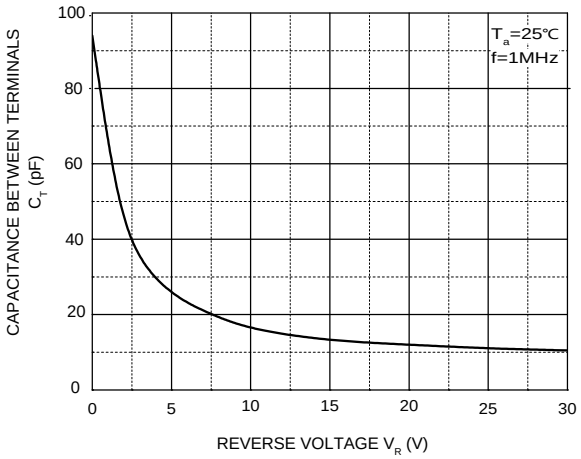

FIG.5 - TYPICAL REVERSE CHARACTERISTICS