

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 75 Volts

POWER 200mWatts

PACKAGE SOT-323

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance

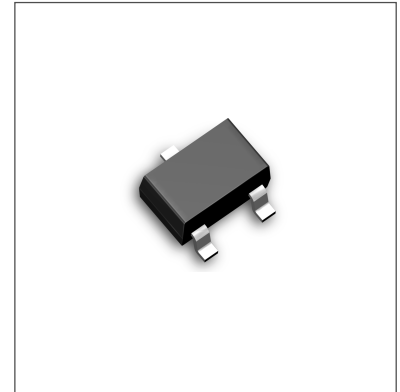
MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram

Marking : JF, JC, JA, JG



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

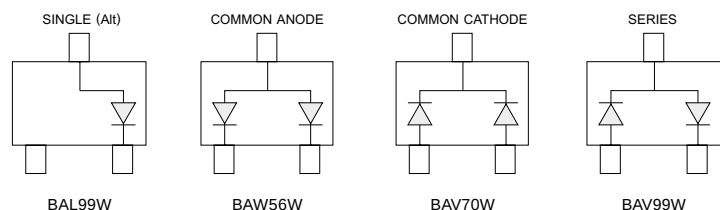
Single phase, half wave, 60 Hz, resistive or inductive load.

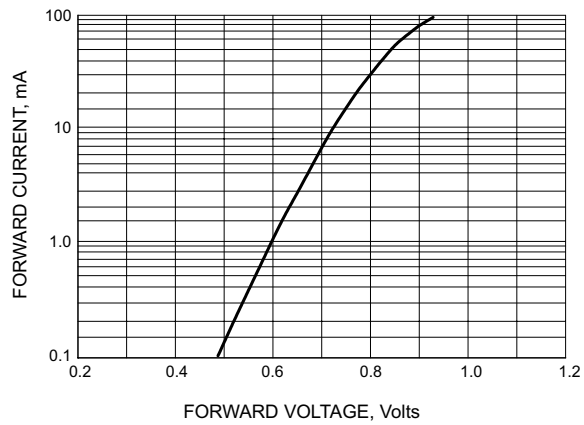
For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAL99W	BAW56W	BAV70W	BAV99W	UNITS
Reverse Voltage	V_R	75	75	75	75	V
Peak Reverse Voltage	V_{RM}	100	100	100	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50$ Hz	I_o	150	150	150	150	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	2.0	2.0	2.0	2.0	A
Power Dissipation Derate Above 25°C	P_{TOT}	200	200	200	200	mW
Maximum Forward Voltage at $I_F=10mA$	V_F	1.0	1.0	1.0	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ C$	I_R	2.5	2.5	2.5	2.5	μA
Typical Junction Capacitance(Notes1)	C_J	4.0	4.0	4.0	4.0	pF
Maximum Reverse Recovery (Notes2)	T_{RR}	4.0	4.0	4.0	4.0	ns
Maximum Thermal Resistance	$R_{\theta JA}$	357				$^\circ C / W$
Storage Temperature Range	T_J	-55 TO +125				$^\circ C$

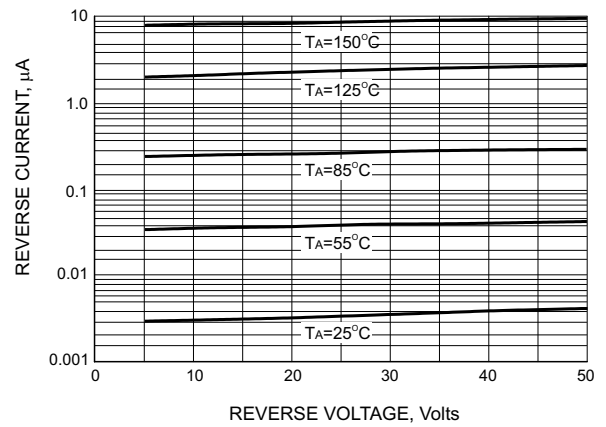
NOTE:

 1. C_J at $V_R=0$, $f=1MHz$

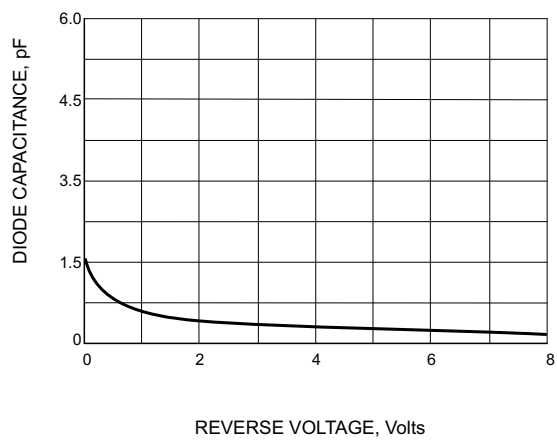
 2. From $I_F=10mA$ to $I_R=1mA$, $V_R=6Volts$, $R_L=100\Omega$




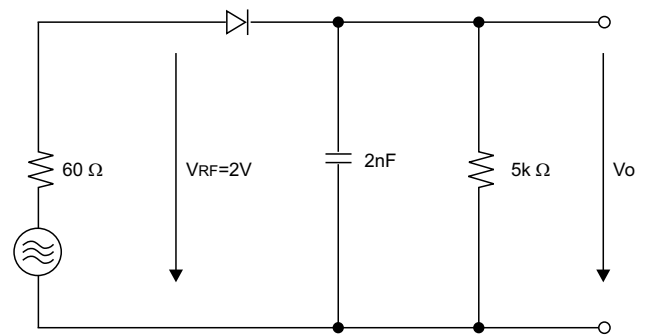
FORWARD VOLTAGE



LEAKAGE CURRENT

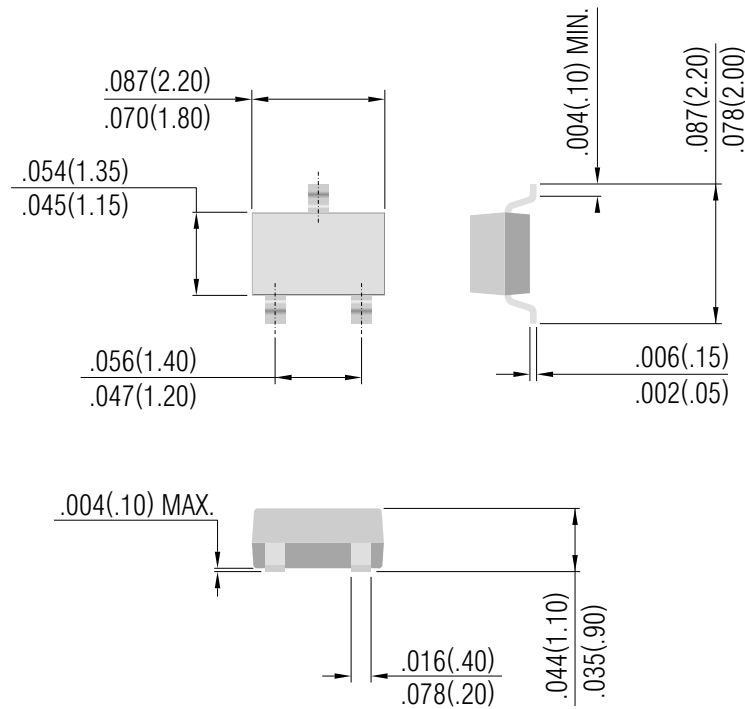


TYPICAL CAPATICANCE



RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT

SOT-323



Dimensions in inches and (millimeters)

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