

BAL99, BAW56, BAV70, BAV99

SURFACE MOUNT SWITCHING DIODES

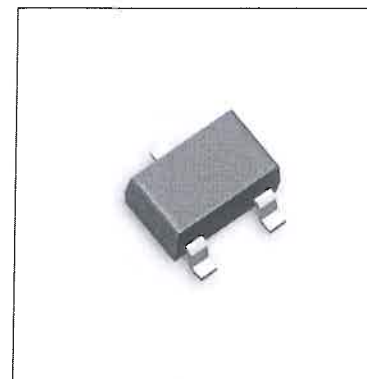
VOLTAGE 75 Volts

POWER 350 mWatts

PACKAGE SOT-23

FEATURES

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



MECHANICAL DATA

Case: SOT-23, 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.

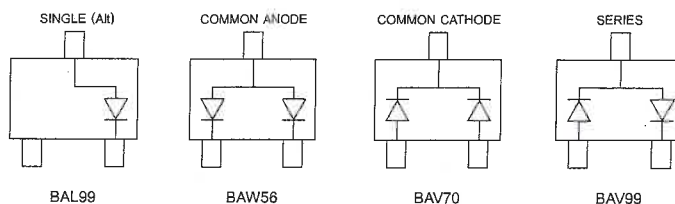
For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAL99	BAW56	BAV70	BAV99	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 >=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}	350	350	350	350	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°C	I _R	2.5	2.5	2.5	2.5	μA
Typical Junction Capacitance(Notes1)	C _{Jot}	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	RθJA		357			°C / W
Storage Temperature Range	T _J		-55 TO +125			°C

NOTE:

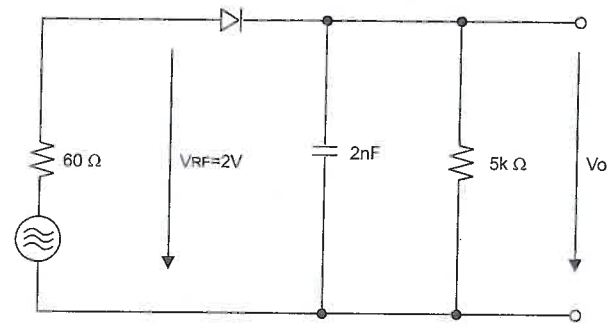
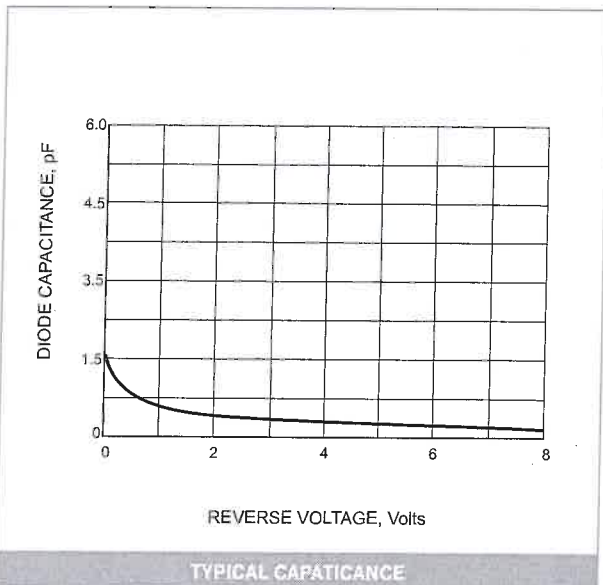
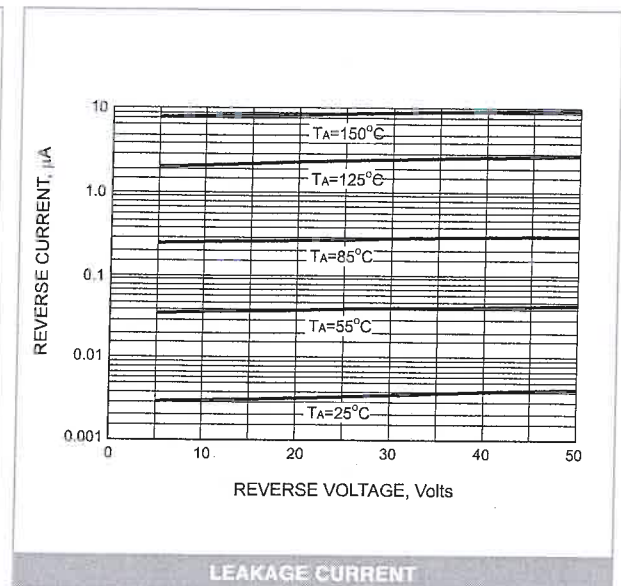
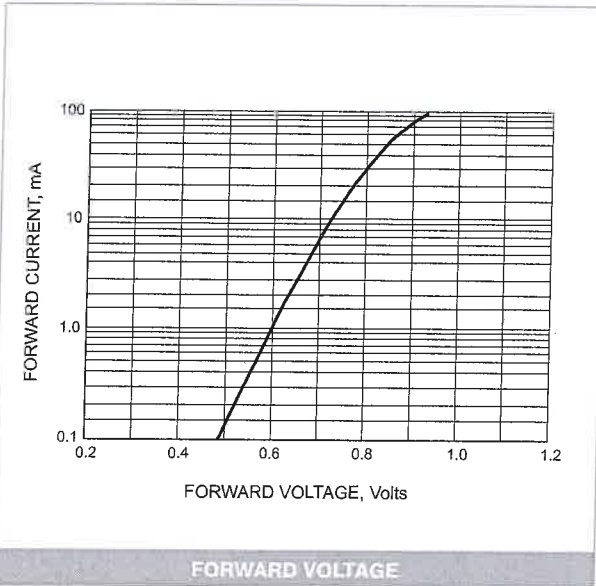
1. C_J at V_R=0, f=1MHZ

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



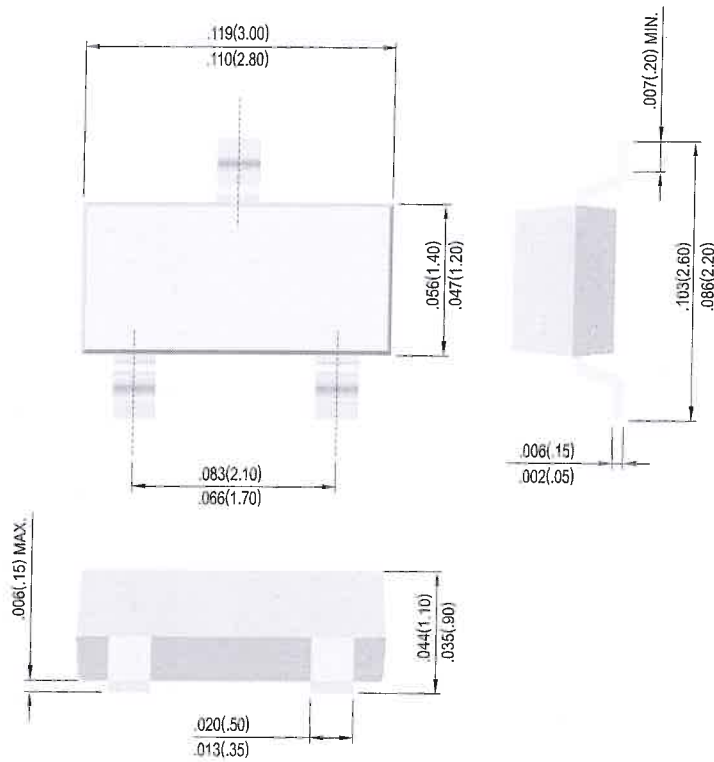


RATING and CHARACTERISTIC CURVES



RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT

SOT-23



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