

### HITANO ENTERPRISE CORP.

BAL99, BAW56, BAV70, BAV99

# TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES VOLTAGE - 100 Volts CURRENT - 0.15 Ampere

#### **FEATURES**

- \* Surface Mount Package Ideally Suited for Automatic Insertion
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated, solderable per

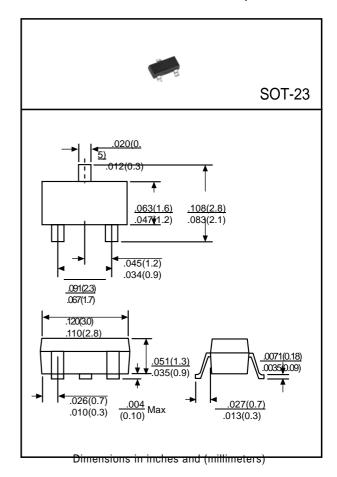
MIL-STD-202E, Method 208 guaranteed

- \* Mounting position: Any
- \* Weight: 0.008 grams Approx.

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive

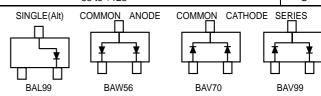
For capacitive load, derate current by 20%.



	SYMBOL	BAL99	BAW56	BAV70	BAV99	UNITS
Maximum Reverse Voltage	VR	75				V
Maximum Recurrent Peak Reverse Voltage	VRRM	100				V
Maximum Average Rectified Current	lo	150				mA
Peak Forward Surge Current, 8.3ms single half sine-wave		2.0				А
superimposed on rated load (JEDEC Method)	IFSM					
Maximum Power Dissipation Tamb=25°C	Ptot	350				mW
Maximum Forward Voltage (@IF=10mA)	VF	1.0				V
Maximum Reverse Current (@VR=VR Max)	IR	2.5				μА
Maximum Reverse Recovery Time(Note 1)	trr	6.0				nS
Typical Junction Capacitance(Note 2)	CJ	4.0				pF
Typical Thermal Resistance	RθJA	357				°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +125				°C

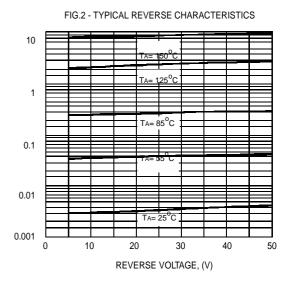
Note: 1. Test Conditions: IF=IR=10mA, RL=100 $\Omega$ , VR=6V to IR=1mA, RL=100 $\Omega$ 

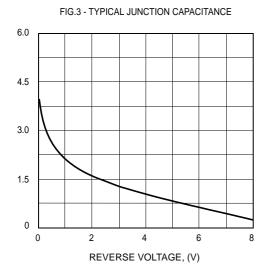
2. Measured at 1MHz and VR=0

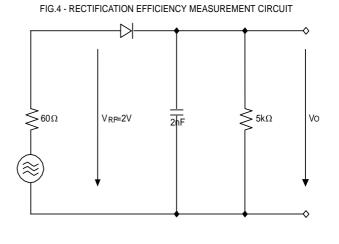


Pin Configuration (Top View)

## RATING AND CHARACTERISTIC CURVES (BAL99, BAW56, BAV70, BAV99)







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