

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volt POWER 250mWatt

FEATURES

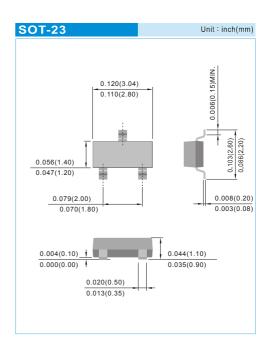
- · Fast switching speed.
- · Surface mount package ideally suited for automatic insertion
- · Electrically identical to Standard JEDEC
- · High Conductance
- · AEC-Q101 qualified
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: SOT-23, Plastic

• Terminals: Solderable per MIL-STD-750, Method 2026

· Approx. Weight: 0.0084 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

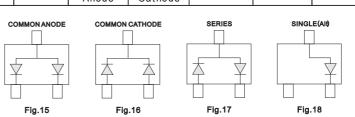
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56-AU	BAV70-AU	BAV99-AU	BAL99-AU	UNITS
Marking Code	-	1C	JA	JB	JF	-
Reverse Voltage	V _R	75				٧
Peak Reverse Voltage	V _{RM}	100				V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f <u>></u> 50 Hz	I o	150				mA
Peak Forward Surge Current,0.001ms	I _{FSM}	4.0				Α
Power Dissipation Derate Above 25°C	Ртот	250				mW
Maximum Forward Voltage	V _F	0.715 @ I F=1mA 0.855 @ I F=10mA 1.0 @ I F=50mA 1.25 @ I F=150mA				٧
Maximum DC Reverse Current at 25V 75V	I _R	0.03 2.5				μΑ
Maximum Junction Capacitance (Notes 1)	CJ	1.5				pF
Maximum Reverse Recovery Time (Notes 2)	t _{rr}	4.0				ns
Typical Thermal Resistance	R _{eJA} R _{eJC}	360 205				°C / W
Junction Temperature Range	T _J	-55 to +150				°C
Circuit Figure	-	Common Anode	Common Cathode	Series	Single(Alt)	-

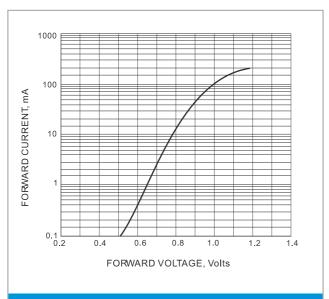
NOTE:

1. CJ at VR=0, f=1MHz

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







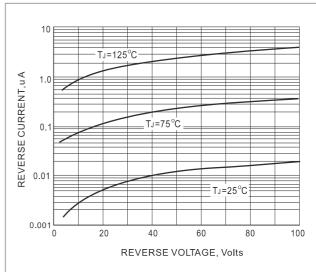
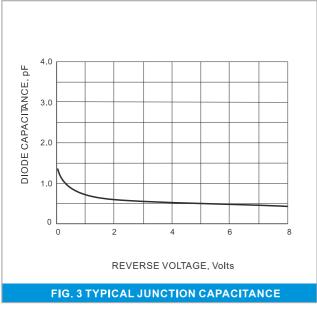
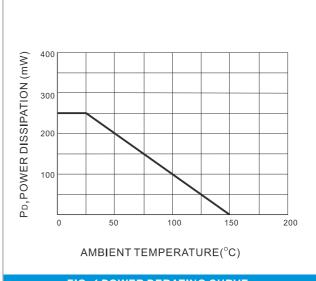


FIG. 1-TYPICAL FORWARD CHARACTERISTIC



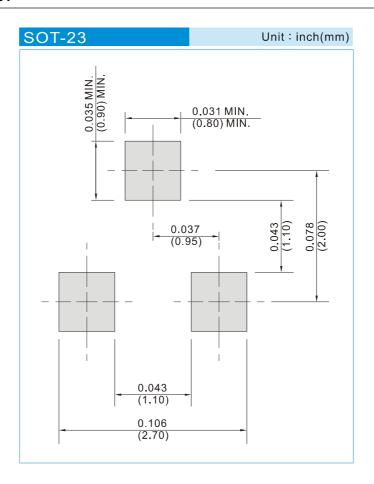




3. 3 TYPICAL JUNCTION CAPACITANCE FIG. 4 POWER DERATING CURVE



MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



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