



# BAW56DW

## SURFACE MOUNT SWITCHING DIODES

<b>VOLTAGE</b>	<b>100 Volts</b>	<b>POWER</b>	<b>200mWatts</b>
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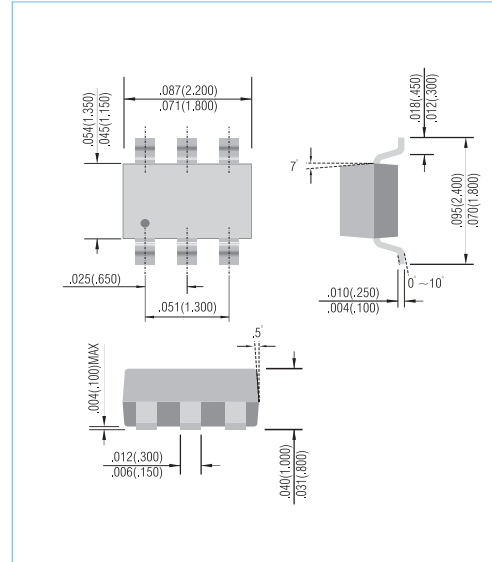
SOT-363 Unit: inch ( mm )

### FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Pb free product : Sn can meet RoHS environment substance directive request

### MECHANICAL DATA

- Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.006 gram
- Marking Code : JC



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BAW56DW	UNITS
Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50$ Hz	$I_{F(AV)}$	150	mA
Peak Forward Surge Current, 1.0us	$I_{FSM}$	2.0	A
Power Dissipation Derate Above 25°C	$P_{TOT}$	200	mW
Maximum Forward Voltage	$V_F$	0.715 @ $I_F=0.001A$ 0.855 @ $I_F=0.01A$ 1.0 @ $I_F=0.05A$ 1.25 @ $I_F=0.15A$	V
Maximum DC Reverse Current at 25V 75V	$I_R$	0.03 2.5	$\mu A$
Maximum Junction Capacitance( Notes 1)	$C_J$	1.5	pF
Maximum Reverse Recovery Time (Notes 2)	$t_{rr}$	4.0	ns
Maximum Thermal Resistance	$R_{\theta JA}$	625	°C / W
Junction Temperature Range	$T_J$	-55 TO +150	°C

**NOTE:**

1.  $C_J$  at  $V_R=0$ ,  $f=1MHZ$
2. From  $I_F=10mA$  to  $I_R=1mA$ ,  $V_R=6Volts$ ,  $R_L=100\Omega$



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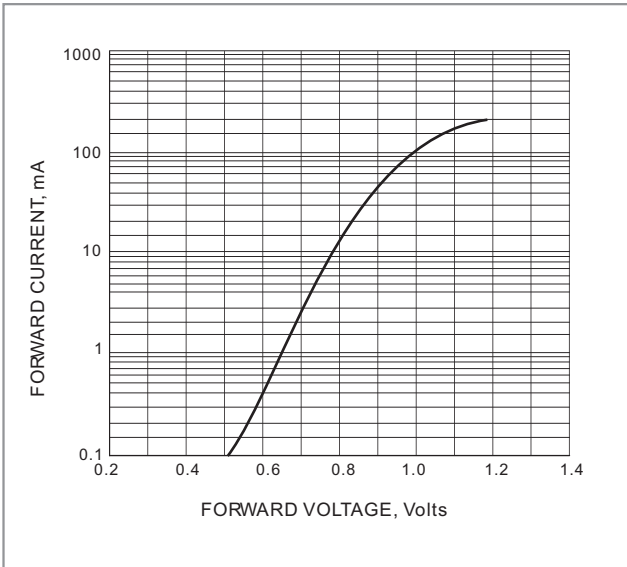


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

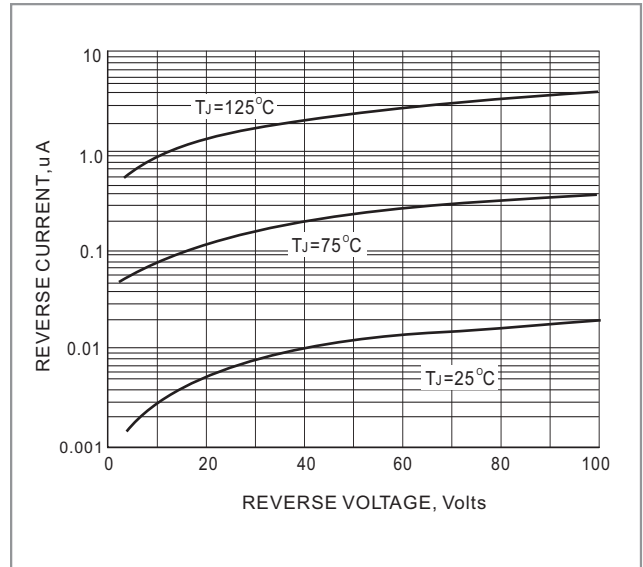


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

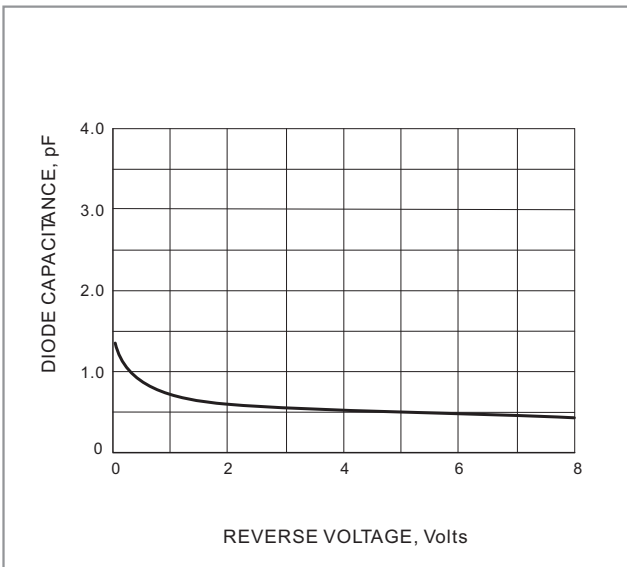


FIG. 3 TYPICAL JUNCTION CAPACITANCE

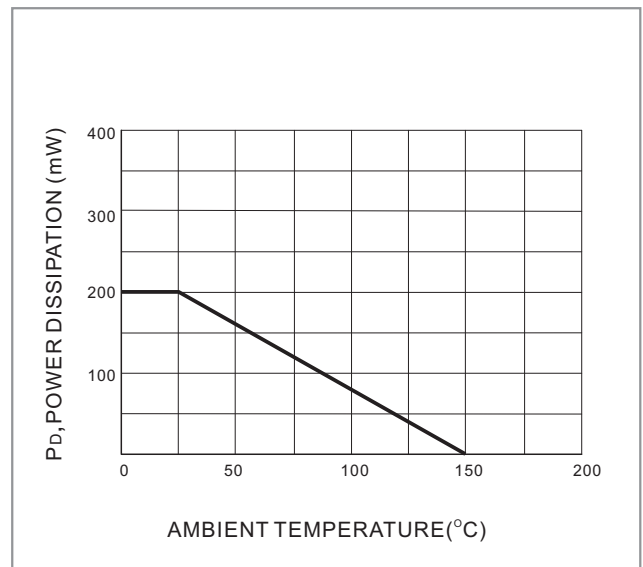


FIG. 4 POWER DERATING CURVE

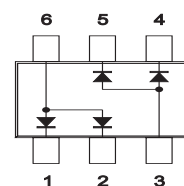
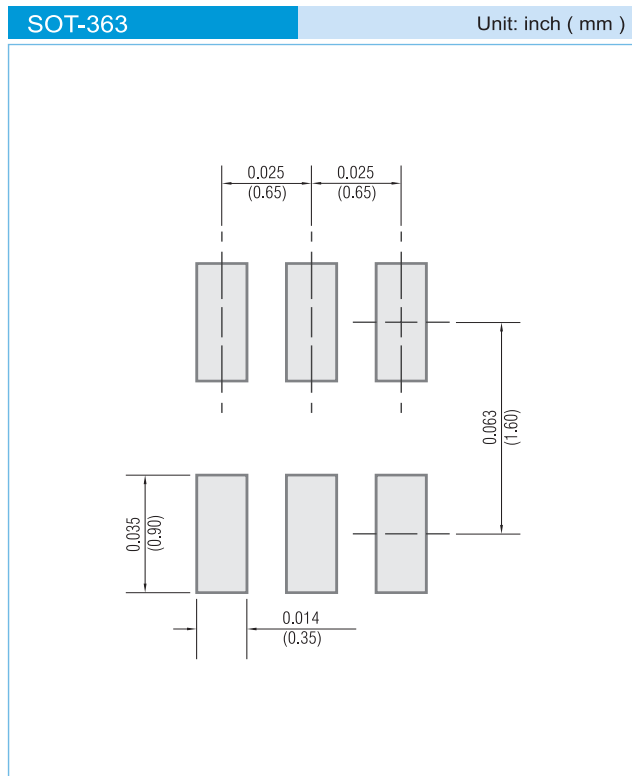


Fig.51



## BAW56DW

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

### LEGAL STATEMENT

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