

### Features

- Low Cost
- Low Current Leakage
- Small Outline Surface Mount Package
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking	
BL99	JF	

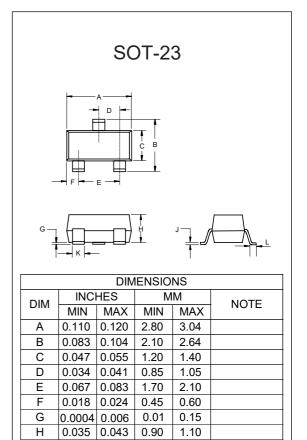
Parameter	Symbol	Value
Reverse Breakdown Voltage	V <sub>R</sub>	70V
Average Forward Current	I <sub>F(AV)</sub>	100mA
Power Dissipation	P <sub>D</sub>	350mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

#### **Internal Structure**



# 350mW 70Volt Switching Diode



#### Suggested Solder Pad Layout

0.08

0.35

0.20

0.18

0.51

0.50

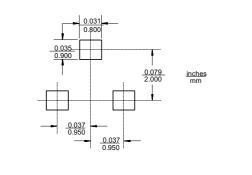
0.003 0.007

0.014 0.020

0.007 0.020

J K

L





### Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage V	V <sub>F</sub>	I <sub>F</sub> =1mA			0.715	V
		I <sub>F</sub> =10mA			0.855	V
		I <sub>F</sub> =50mA			1	V
		I <sub>F</sub> =100mA			1.2	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =70V			2.5	μA
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz		1.5		pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1×I <sub>R</sub> ,R <sub>L</sub> =100Ω			6	ns



### **Curve Characteristics**

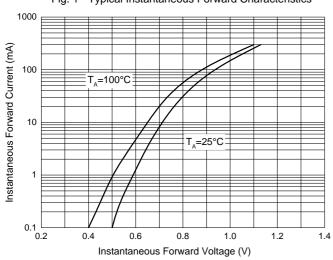
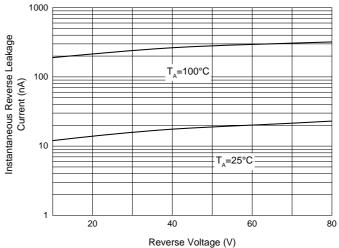
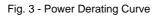
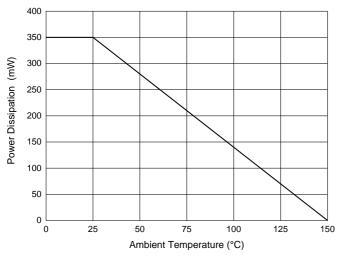


Fig. 1 - Typical Instantaneous Forward Characteristics

## Fig. 2 - Typical Reverse Leakage Characteristics









### **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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