

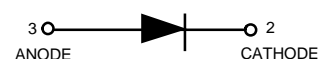
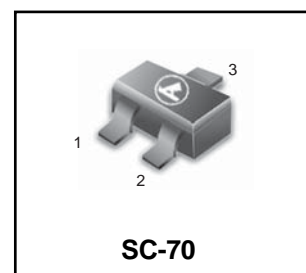
# Switching Diode

- We declare that the material of product compliance with RoHS requirements.

### DEVICE MARKING ORDERING INFORMATION

Device	Marking	Shipping
LBAL99WT1G	JF	3000 Tape & Reel
LBAL99WT1G	JF	10000 Tape & Reel

## LBAL99WT1G



### Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

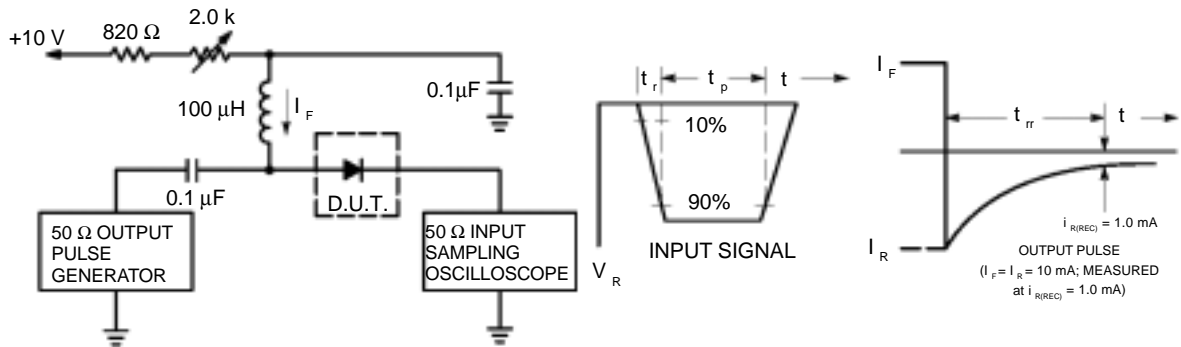
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
Forward Continuous Current (Note 1)	I <sub>F</sub>	300	mA
Average Rectified Output Current (Note 1)	I <sub>O</sub>	150	mA
Peak Forward Surge Current (Note 1)	I <sub>FSM</sub>	2.0	A
Power Dissipation (Note 1)	P <sub>d</sub>	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	625	K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150	°C

### Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	V <sub>F</sub>	—	0.855 1.0	V	@ I <sub>F</sub> = 10mA @ I <sub>F</sub> = 50mA
Reverse Leakage Current	I <sub>R</sub>	—	2.5	μA	@ V <sub>R</sub> = 75V
Junction Capacitance	C <sub>j</sub>	—	2.0	pF	V <sub>R</sub> = 0V, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	—	6.0	nS	I <sub>F</sub> = I <sub>R</sub> = 10mA, I <sub>RR</sub> = 0.1 x I <sub>R</sub> , R <sub>L</sub> = 100Ω

Note: 1. FR-5 = 1.0 × 0.75 × 0.062 in.

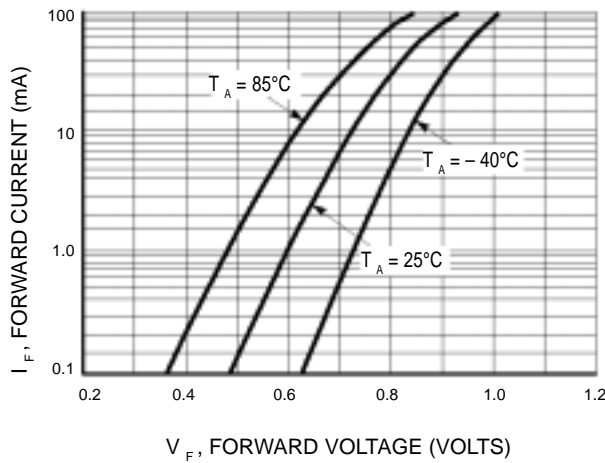
**LBAL99WT1G**



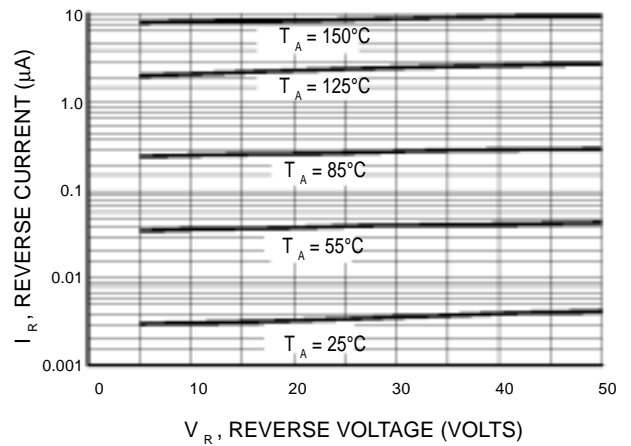
- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current ( $I_F$ ) of 10mA.
- 2. Input pulse is adjusted so  $I_{R(peak)}$  is equal to 10mA.
- 3.  $t_p \gg t_{rr}$

**Figure 1. Recovery Time Equivalent Test Circuit**

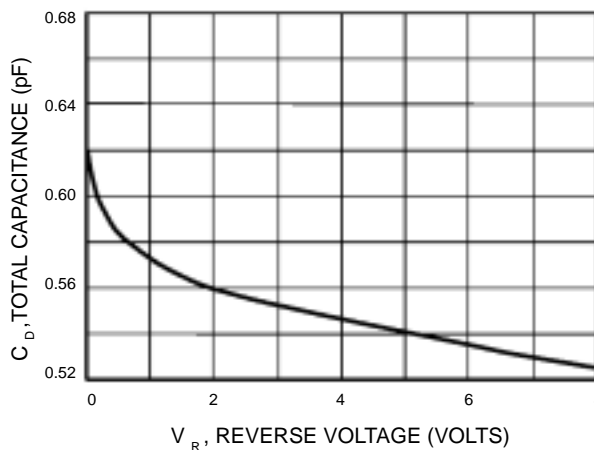
**CURVES APPLICABLE TO EACH DIODE**



**Figure 2. Forward Voltage**



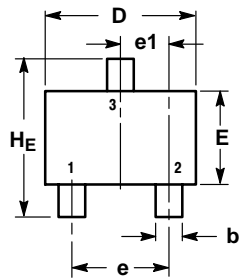
**Figure 3. Leakage Current**



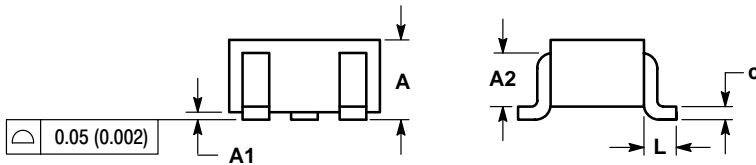
**Figure 4. Capacitance**

**LBAL99WT1G**

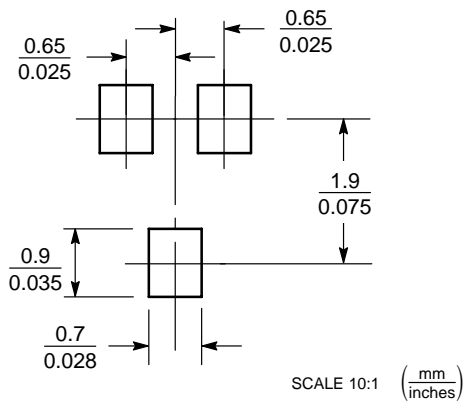
**SC-70 (SOT-323)**



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.032	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A2	0.7 REF			0.028 REF		
b	0.30	0.35	0.40	0.012	0.014	0.016
c	0.10	0.18	0.25	0.004	0.007	0.010
D	1.80	2.10	2.20	0.071	0.083	0.087
E	1.15	1.24	1.35	0.045	0.049	0.053
e	1.20	1.30	1.40	0.047	0.051	0.055
e1	0.65 BSC			0.026 BSC		
L	0.425 REF			0.017 REF		
HE	2.00	2.10	2.40	0.079	0.083	0.095



**SOLDERING FOOTPRINT\***



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)