

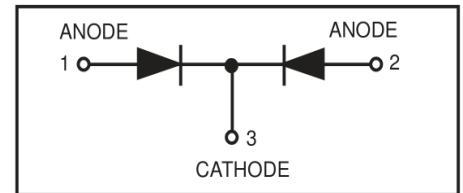
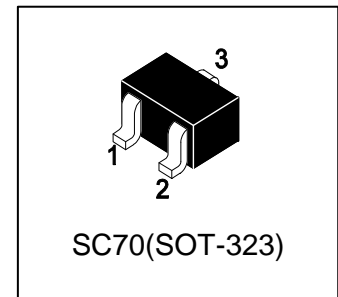
# LBAV70WT1G

# S-LBAV70WT1G

## Dual Switching Diode

### 1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- For high-speed switching applications.



### 2. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
LBAV70WT1G	A4	3000/Tape&Reel
S-LBAV70WT1G	A4	3000/Tape&Reel

### 3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse Voltage	VR	100	V
Forward Current	IF	200	mA
Peak Forward Surge Current	IFM(surge)	500	mA

### 4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 1.6	mW mW/°C
Thermal Resistance Junction-to-Ambient	RθJA	625	°C/W
Total Device Dissipation, Alumina Substrate (Note 2) @ TA = 25°C Derate above 25°C	PD	300 2.4	mW mW/°C
Thermal Resistance Junction-to-Ambient	RθJA	417	°C/W
Junction and Storage temperature	TJ,Tstg	-55 ~ +150	°C

1.FR-5 = 1.0 × 0.75 × 0.062 in.

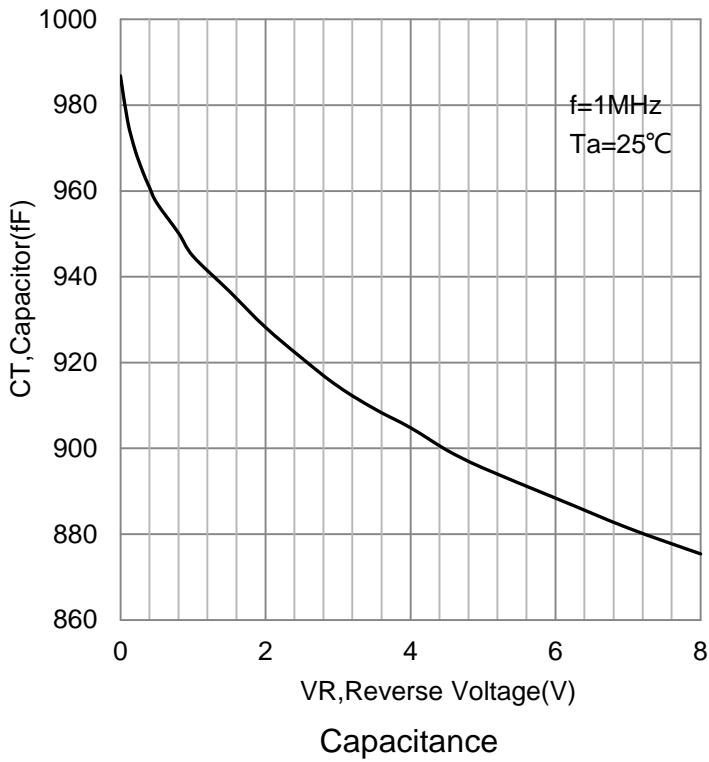
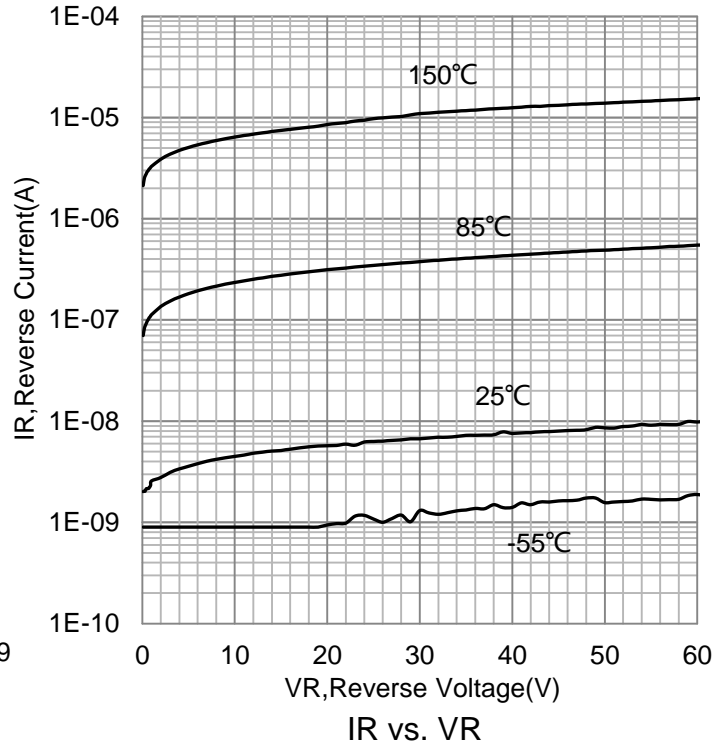
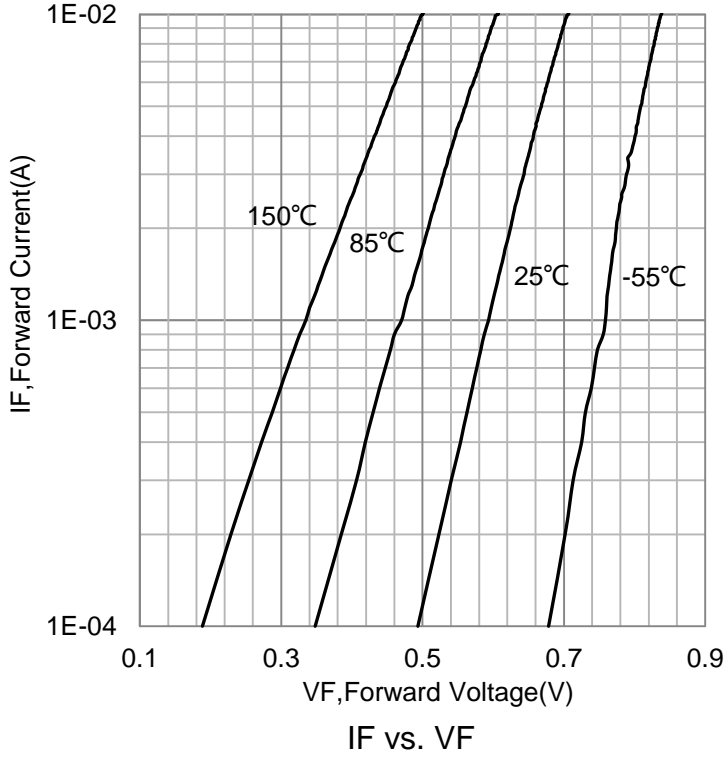
2.Alumina = 0.4 × 0.3 × 0.024 in. 99.5% alumina.

**5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

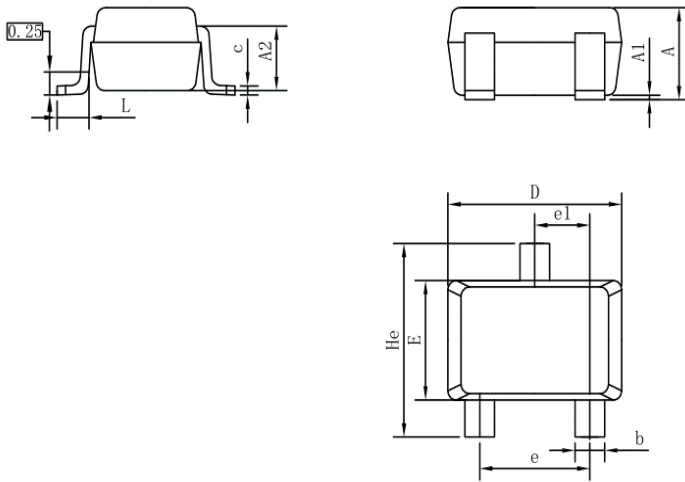
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR)=100μA)	VBR	100	-	-	V
Reverse Voltage Leakage Current (VR = 70V)	IR	-	-	5.0	μA
(VR = 50V)		-	-	100	nA
Diode Capacitance (VR = 0V, f = 1.0 MHz)	CD	-	-	1.5	pF
Forward Voltage (IF = 1.0 mA)	VF	-	-	715	mV
(IF = 10 mA)		-	-	855	
(IF = 50 mA)		-	-	1000	
(IF = 150 mA)		-	-	1250	
Reverse Recovery Time (IF=IR=10mA, RL=100Ohm, IR(REC)=1.0 mA)	trr	-	-	6.0	ns
Forward Recovery Voltage (IF = 10 mA, tr = 20 ns)	VRF	-	-	1.75	V

3.For each individual diode while the second diode is unbiased.

**6. ELECTRICAL CHARACTERISTICS CURVES**

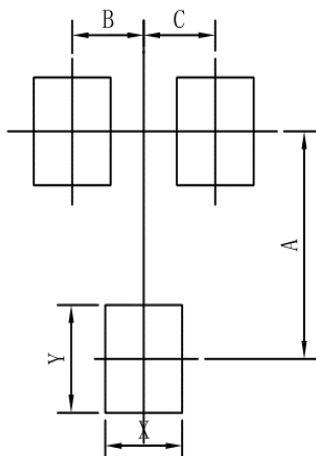


### 7. OUTLINE AND DIMENSIONS



SC70			
DIM	MIN	NOR	MAX
A	0.80	0.95	1.00
A1	0.00	0.05	0.10
A2	0.7 REF		
b	0.30	0.35	0.40
c	0.10	0.15	0.25
D	1.80	2.05	2.20
E	1.15	1.30	1.35
e	1.20	1.30	1.40
e1	0.65 BSC		
L	0.20	0.35	0.56
He	2.00	2.10	2.40
ALL Dimension in mm			

### 8. SOLDERING FOOTPRINT



SC70	
DIM	MIN
A	1.90
B	0.65
C	0.65
X	0.70
Y	0.90

## **DISCLAIMER**

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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