

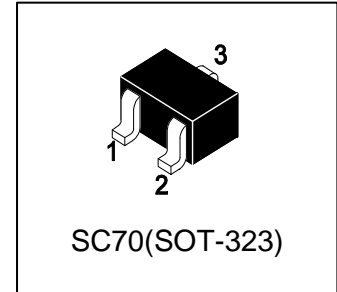
# LBAV70WT1G

## S-LBAV70WT1G

### Dual Switching Diode

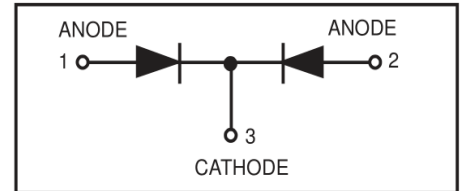
#### 1. FEATURES

- 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	70	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.

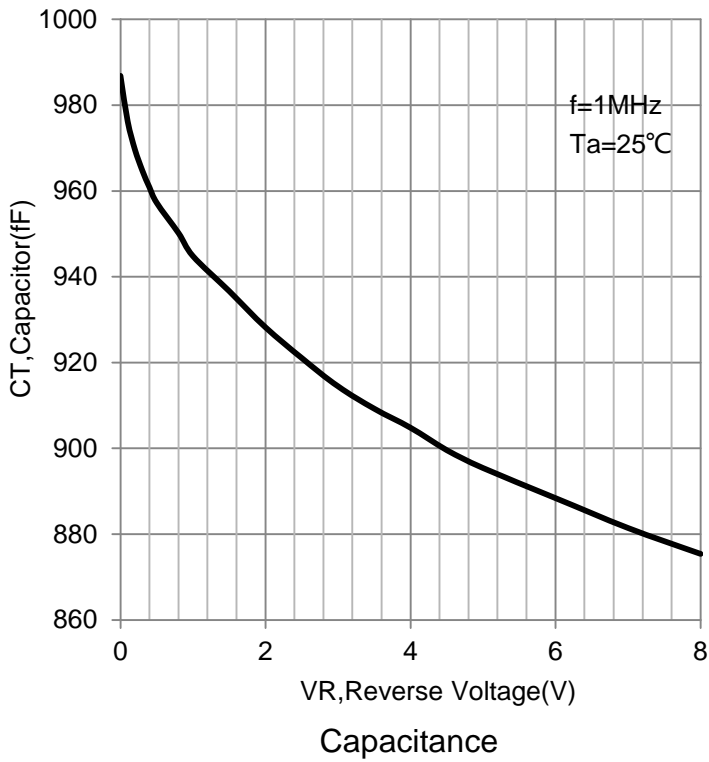
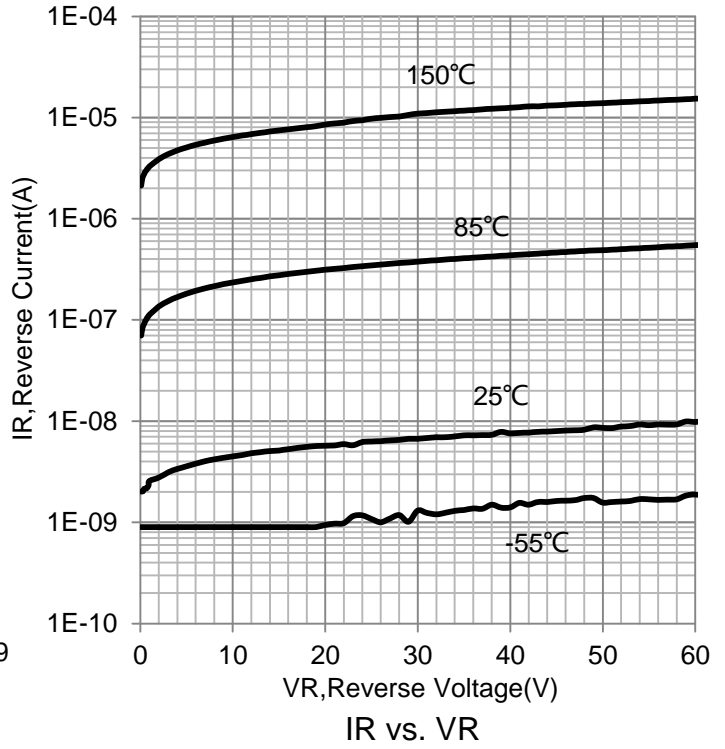
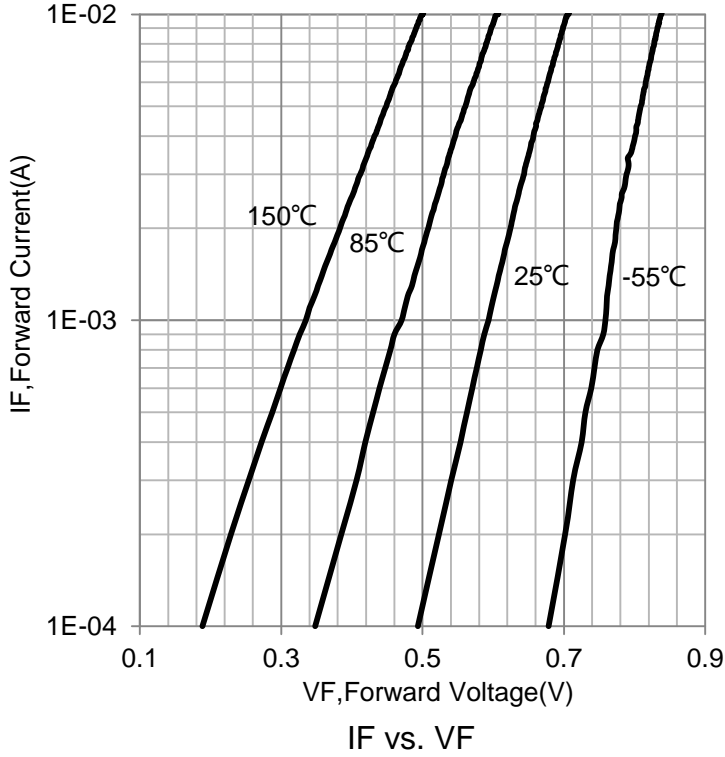
2.Alumina = 0.4 × 0.3 × 0.024 in. 99.5% alumina.

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

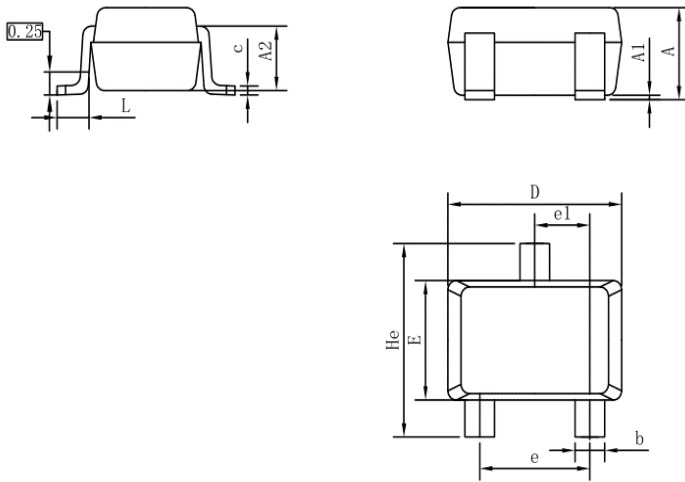
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR)=100μA)	VBR	70	-	-	V
Reverse Voltage Leakage Current (VR = 70V)	IR	-	-	5.0	μA
(VR = 50V)		-	-	100	nA
Diode Capacitance (VR = 0V, f = 1.0 MHz)	CD	-	-	1.5	pF
Forward Voltage (IF = 1.0 mA)	VF	-	-	715	mV
(IF = 10 mA)		-	-	855	
(IF = 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**

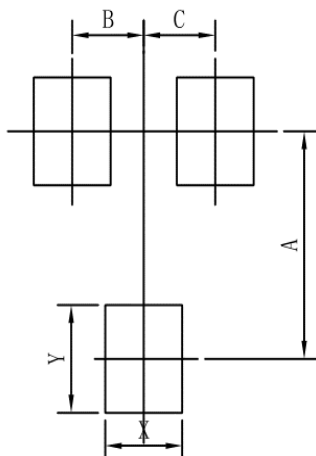


### 7. OUTLINE AND DIMENSIONS



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