

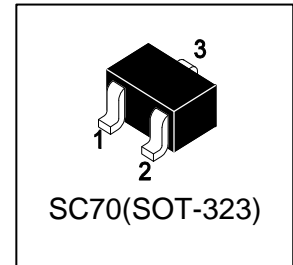
# LBAW56WT1G

# S-LBAW56WT1G

## Dual Switching Diodes

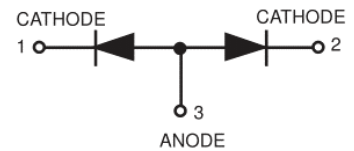
### 1. FEATURES

- 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.



### 2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBAW56WT1G	A1	3000/Tape&Reel
LBAW56WT3G	A1	10000/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(Ta = 25°C)

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

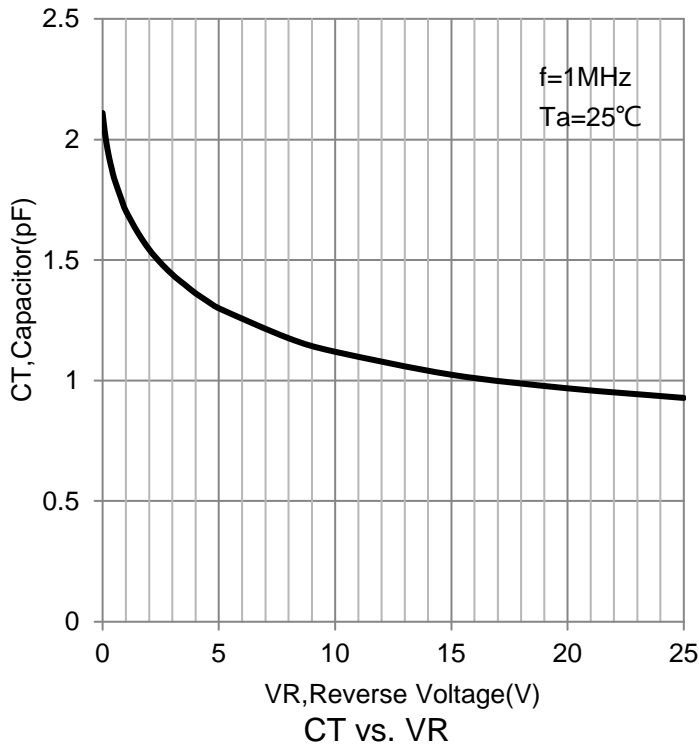
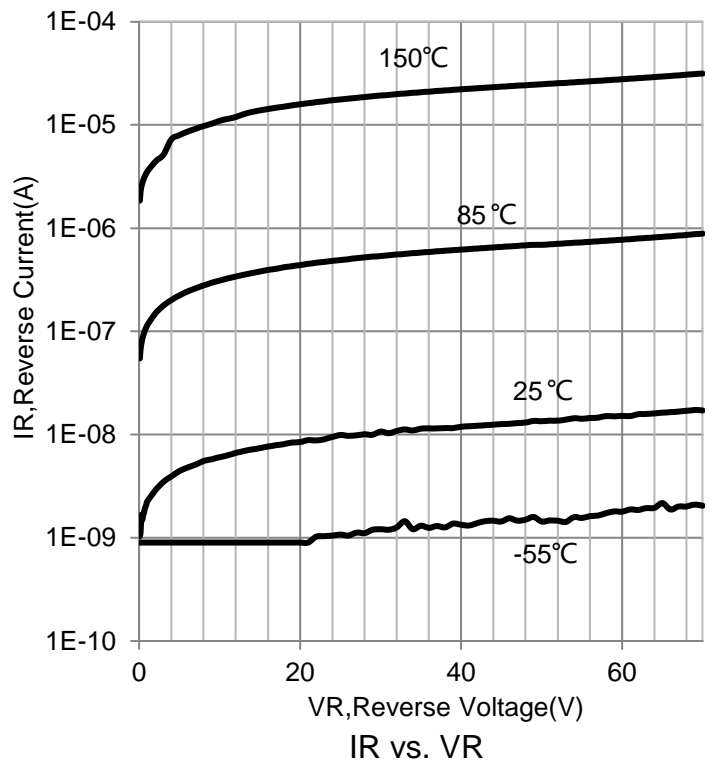
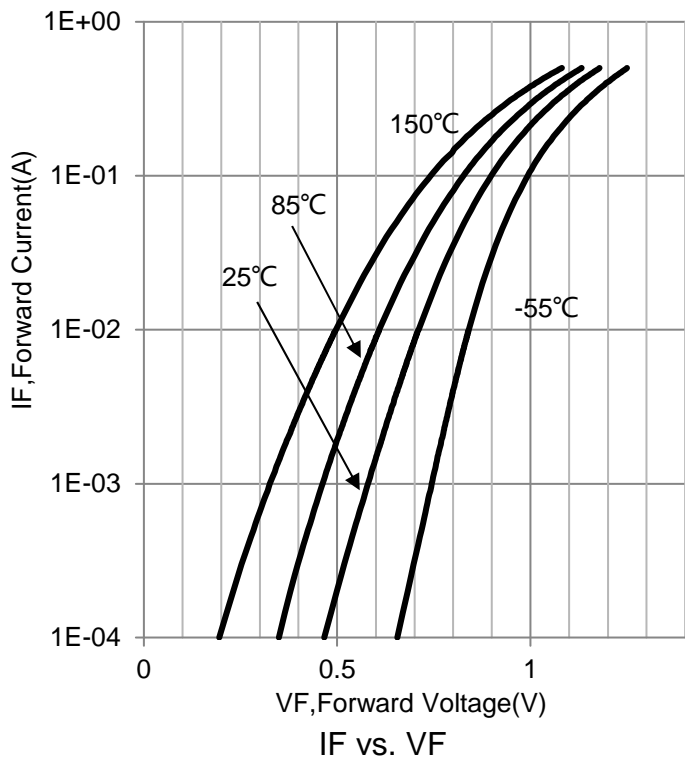
1. FR-5 = 1.0 × 0.75 × 0.062 in.

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

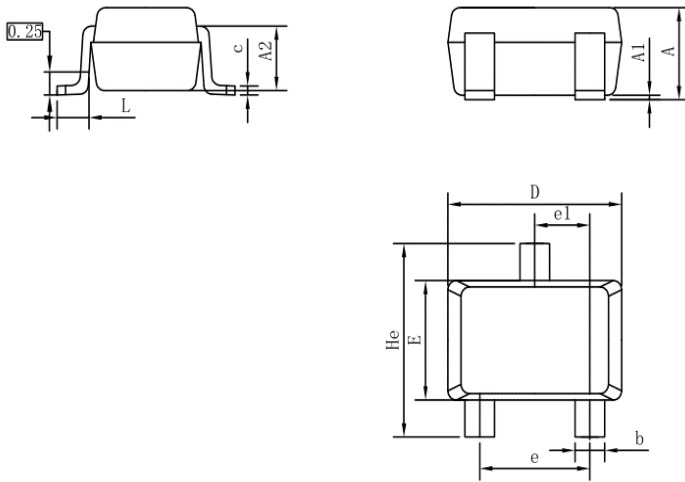
**5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR) = 100 μA)	V(BR)R	70	-	-	V
Reverse Leakage Current (VR = 25 V, TJ = 150°C)	IR	-	-	30	μA
(VR = 70 V)		-	-	2.5	
(VR = 70 V, TJ = 150°C)		-	-	50	
Diode Capacitance (VR = 0, f = 1.0 MHz)	CD	-	-	2	pF
Forward Voltage (IF = 1 mA)	VF	-	-	715	mV
(IF = 10 mA)		-	-	855	
(IF = 50 mA)		-	-	1000	
(IF = 150 mA)		-	-	1250	
Reverse Recovery Time (IF=IR=10 mA, RL=100Ohm, IR(REC) = 1.0 mA)	trr	-	-	6	nS

**6.ELECTRICAL CHARACTERISTICS CURVES**

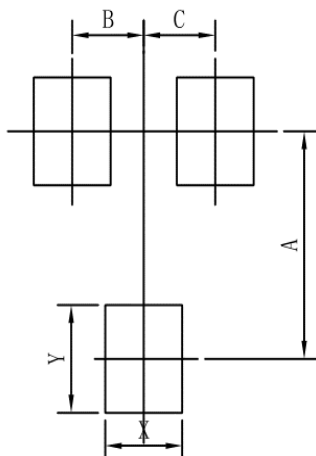


### 7.OUTLINE AND DIMENSIONS



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