

S-LBAV70LT1G

Monolithic Dual Switching Diode
Common Cathode

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
S-LBAV70LT1G	A4	3000/Tape&Reel
S-LBAV70LT3G	A4	13000/Tape&Reel

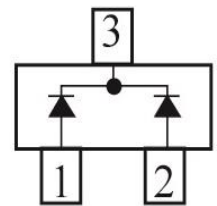
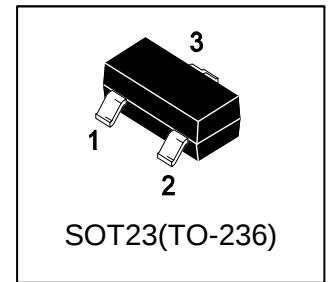
3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse Voltage	VR	100	V
Forward Current	IF	200	mA
Repetitive Peak Forward Current	IFRM	500	mA
Non-Repetitive Peak Forward Current	IFSM	2	A
t=1μs		1	
t=1ms		0.5	
t=1s			

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	225 1.8	mW mW/°C
Thermal Resistance (Note 1)	RθJA RθJC	556 200	°C/W
Junction and Storage temperature	TJ,Tstg	-55 ~ +150	°C

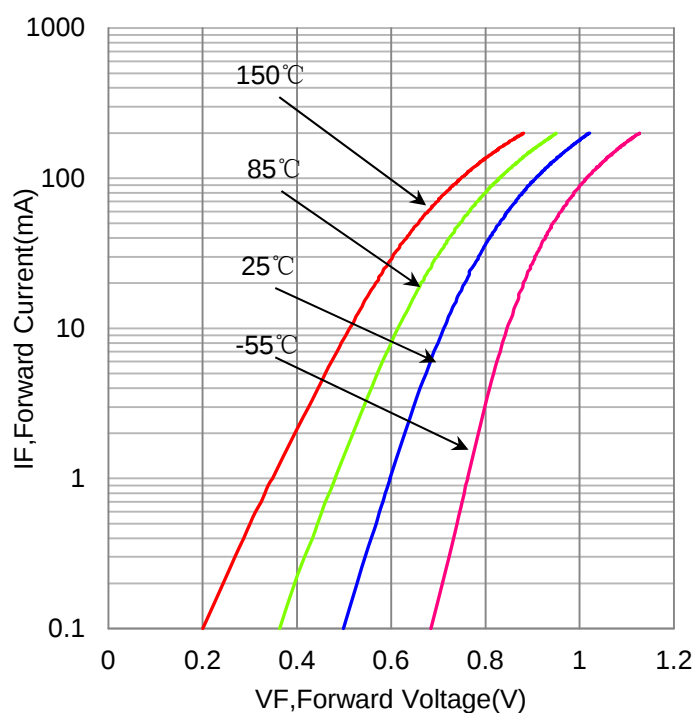
1. FR-5 = 1.0×0.75×0.062 in.



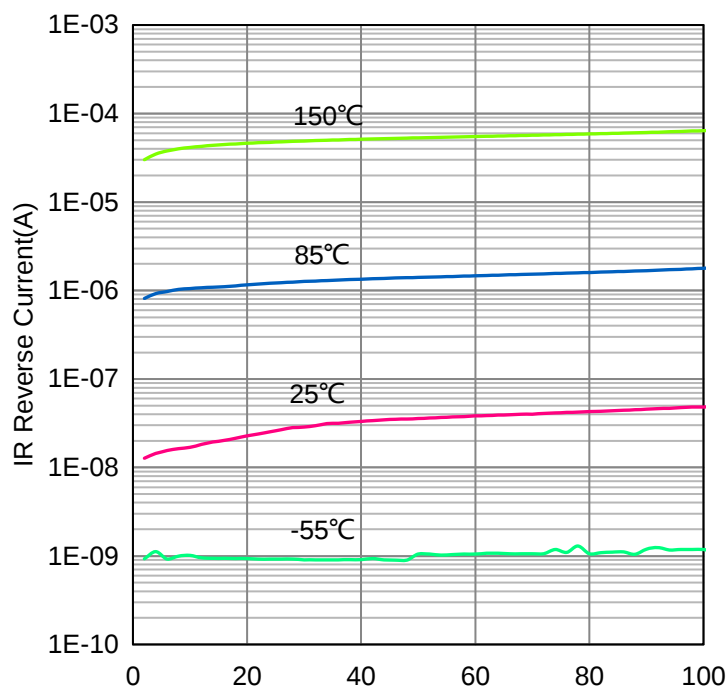
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR)=100μA)	VBR	100	-	-	V
Forward Voltage (IF = 1.0 mA) (IF = 10 mA) (IF = 50 mA) (IF = 150 mA)	VF	- - - -	- - - -	715 855 1000 1250	mV
Reverse Voltage Leakage Current (VR = 70V) (VR = 100V) (VR = 70V, TJ = 150°C) (VR = 25V, TJ = 150°C)	IR	- - - -	- - - -	2.5 2.6 100 60	μA
Diode Capacitance (VR = 0V, f = 1.0 MHz)	CD	-	-	1.5	pF
Reverse Recovery Time (IF=IR=10mA, IR(REC)=1.0 mA, RL =100Ω)	trr	-	-	6.0	ns

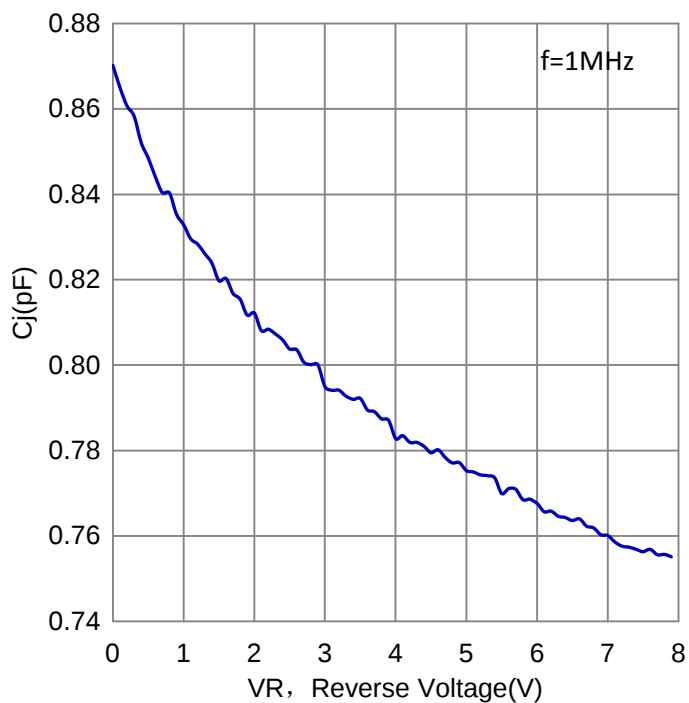
6. ELECTRICAL CHARACTERISTICS CURVES



Forward Characteristics

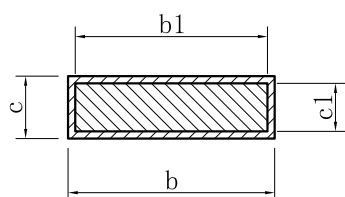
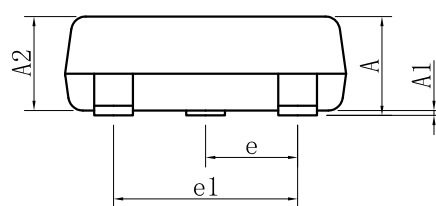
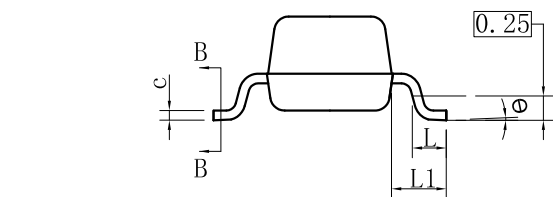


Reverse Characteristics

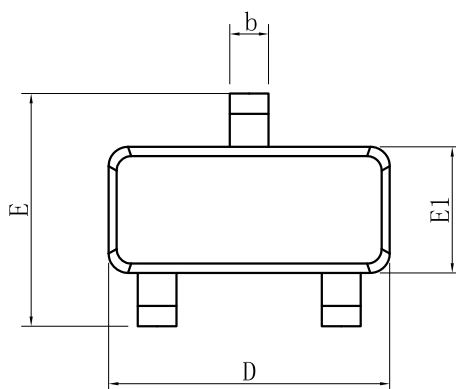


Capacitor Characteristics

7.OUTLINE AND DIMENSIONS



SECTION B-B

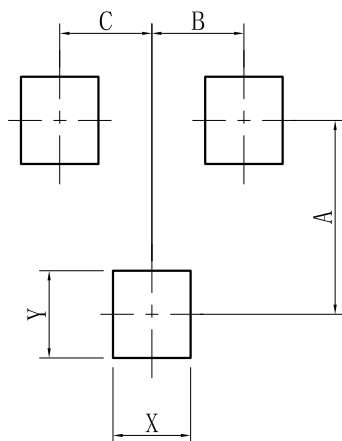


SOT23			
DIM	MIN	NOR	MAX
A	0.89	–	1.12
A1	0.01	–	0.10
A2	0.88	0.95	1.02
b	0.30	–	0.50
b1	0.30	0.40	0.45
c	0.08	–	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	–	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	–	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish Ra0.4±0.2um
- 2.Bottom package surface finish Ra0.7±0.2um
- 3.Side package surface finish Ra0.4±0.2um

8.SOLDERING FOOTPRINT



SOT-23	
DIM	(mm)
X	0.80
Y	0.90
A	2.00
B	0.95
C	0.95

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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