

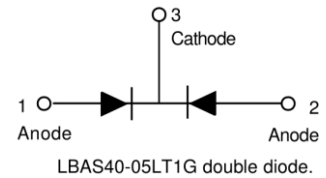
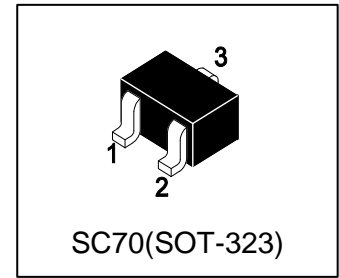
LBAS40-05WT1G

S-LBAS40-05WT1G

Schottky barrier diode

1. FEATURES

- Low forward current
- Guard ring protected
- Low diode capacitance.
- 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. APPLICATIONS

- Ultra high-speed switching.
- Voltage clamping.
- Protection circuits.
- Blocking diodes.

3. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
LBAS40-05WT1G	45	3000/Tape&Reel
S-LBAS40-05WT1G	45	3000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Continuous reverse voltage	VR	40	V
Continuous forward current	IF	120	mA
Repetitive Peak forward surge current(tp <1s, δ<0.5)	IFSM	120	mA
Non-repetitive peak forward current (tp <10ms)	IFSM	200	mA
Storage temperature	Tstg	-40~+150	°C
Junction temperature	Tj	150	°C
Operating ambient temperature	Tamb	-40~+150	°C

5. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Thermal Resistance Junction-to-Ambient(Note 1)	RθJA	625	°C/W

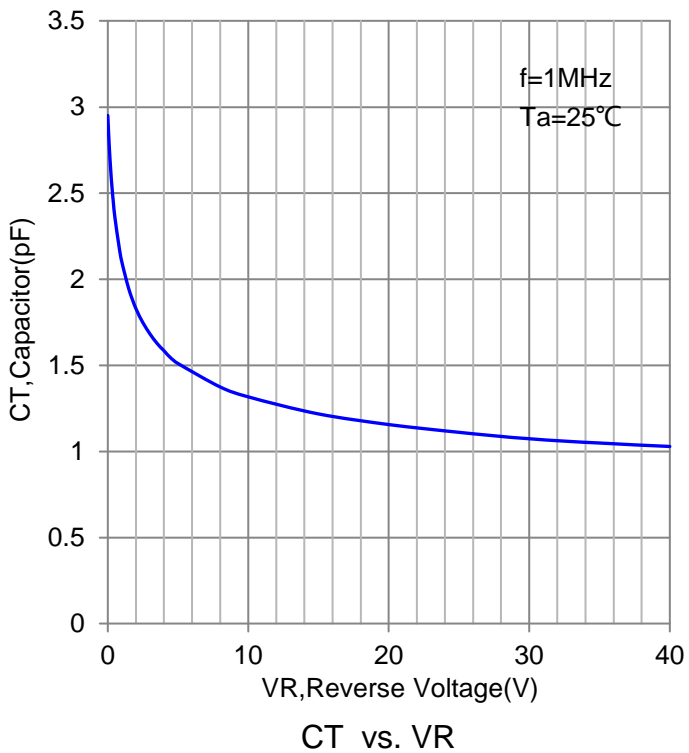
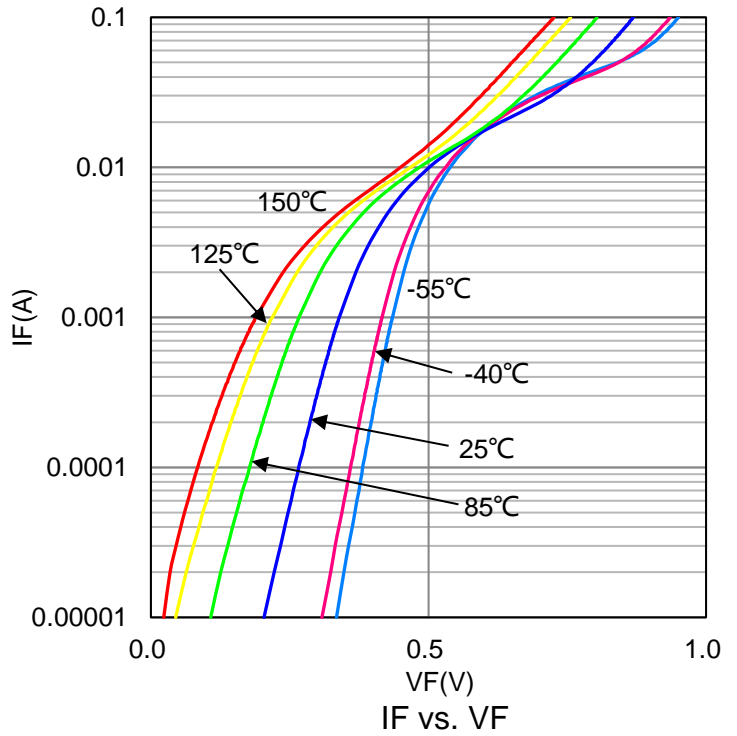
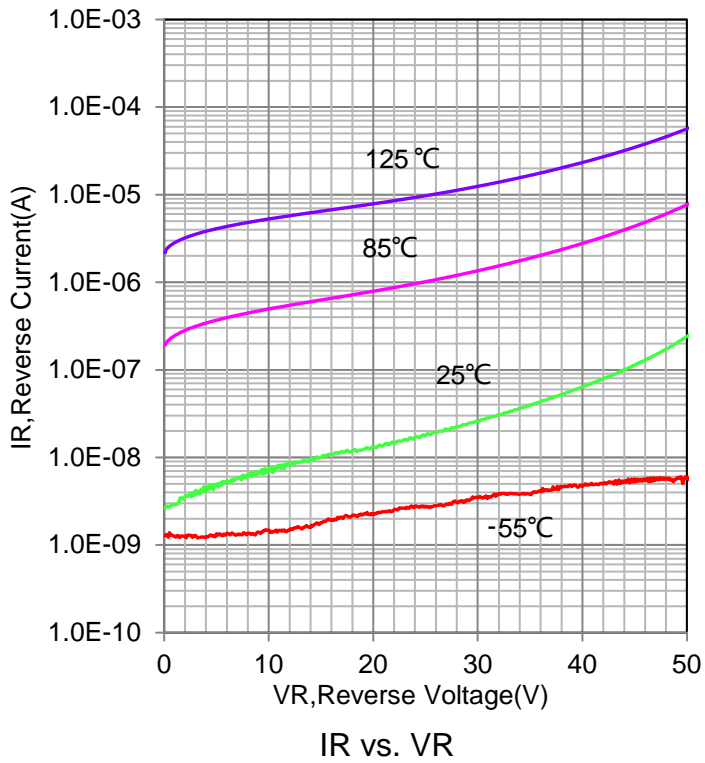
1. FR-5 = 1.0×0.75×0.062 in.

6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

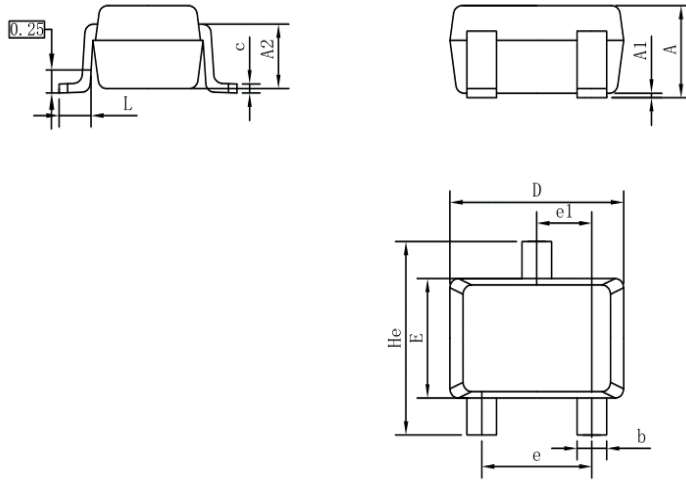
CHARACTERISTICS	Symbol	Limits	Unit
Forward voltage (IF =1mA)	VF	400	mV
(IF =10mA)		560	mV
(IF =40mA)		1	V
Reverse current(Note 2) (VR=30V)	IR	1	μA
(VR=40V)		10	μA
Diode capacitance (f=1MHz,VR =0)	Cd	5	pF

2.Pulse test:tp =300μs,δ=0.02.

7. ELECTRICAL CHARACTERISTICS CURVES

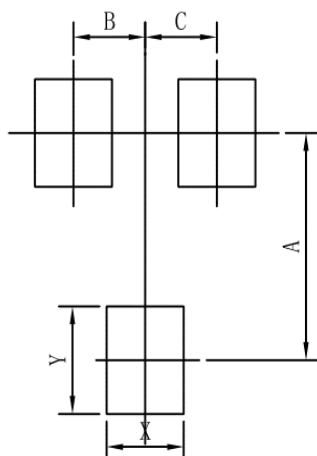


8. OUTLINE AND DIMENSIONS



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			

9. 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.
- Before you use our Products for new Project, you are requested to carefully read this document and fully understand its contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any LRC's Products against warning, caution or note contained in this document.
- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

单击下面可查看定价，库存，交付和生命周期等信息

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