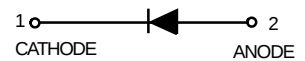
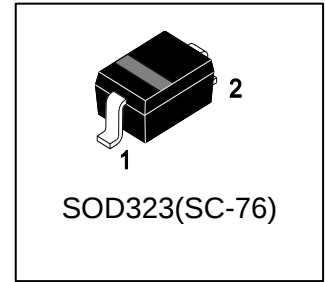


S-LBAT40HT1G

SCHOTTKY BARRIER DIODE

1. FEATURES

- Small surface mounting type.
- Ultralow VF (VF =0.5V Typ. at 0.2A)
- High reliability.
- 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-LBAT40HT1G	6S	3000/Tape&Reel
S-LBAT40HT3G	6S	13000/Tape&Reel

3. MAXIMUM RATINGS

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	VR	40	V
Peak Forward Current	IF	350	mA
Peak Forward Surge Current	IFM(surge)	1500	mA

4. THERMAL CHARACTERISTICS(TJ =125°C unless otherwise noted)

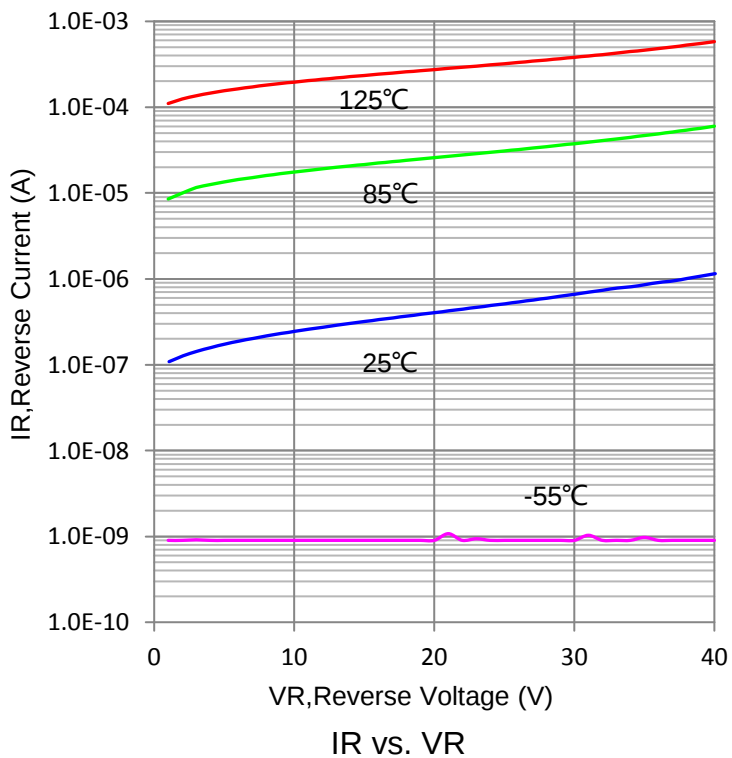
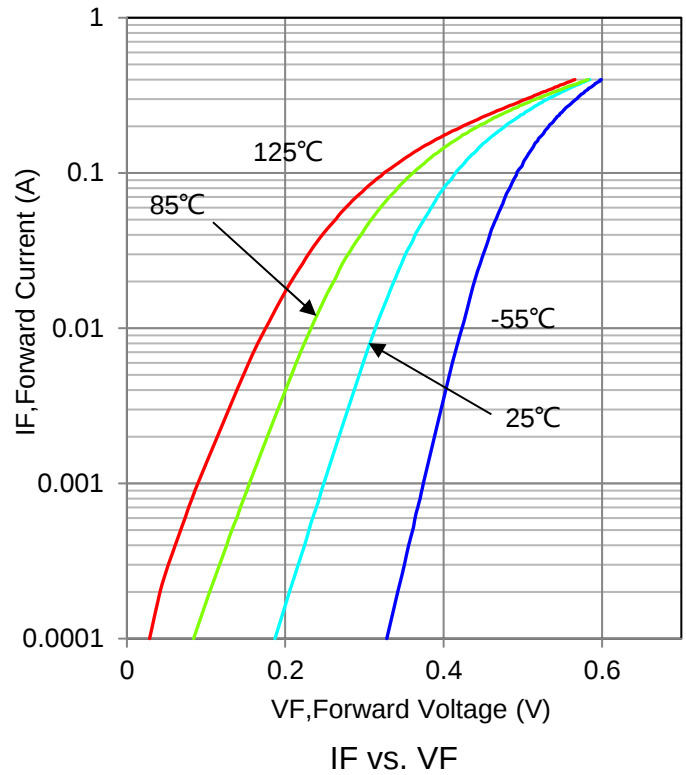
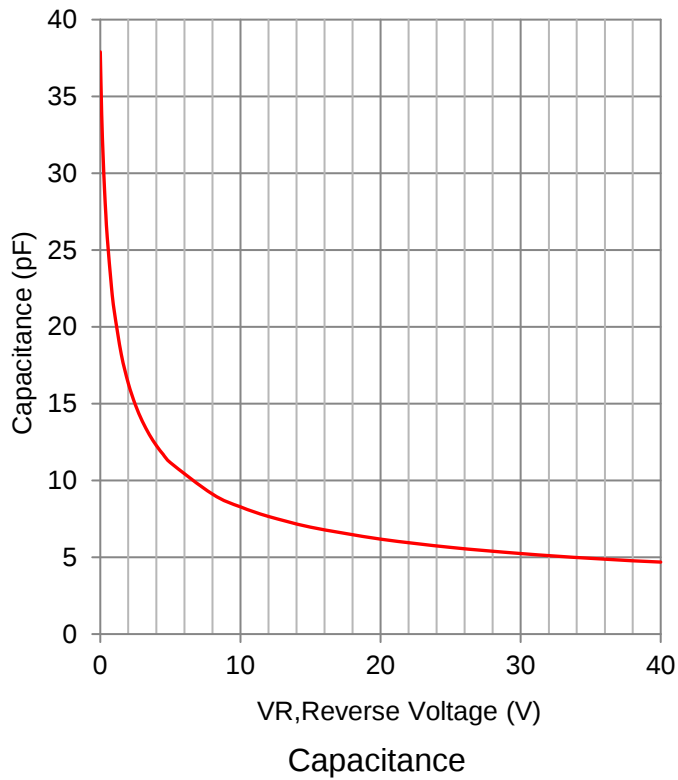
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 2	mW mW/°C
Thermal Resistance, Junction-to-Ambient	RθJA	500	°C/W
Junction Temperature	Tj	125	°C
Storage Temperature Range	Tstg	-65 to +125	°C

1. FR-5 = 1.0 x 0.75 x 0.062 in.

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage Leakage Current (VR = 25 V)	IR	-	-	1	μA
Reverse Breakdown Voltage (IBR = 10 μA)	V(BR)	40	-	-	V
Forward Voltage (IF = 20 mA)	VF	-	-	370	mV
(IF = 200 mA)		-	-	600	

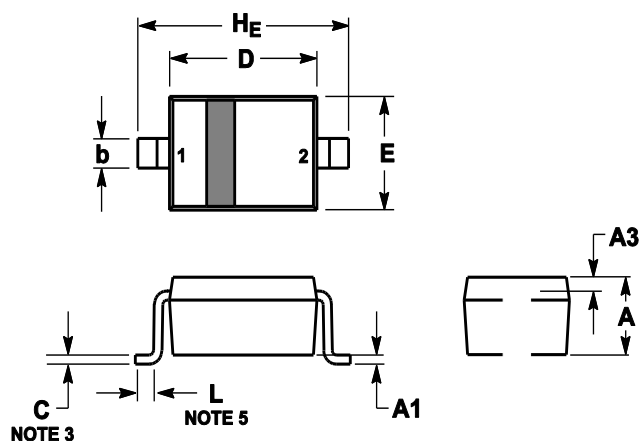
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS

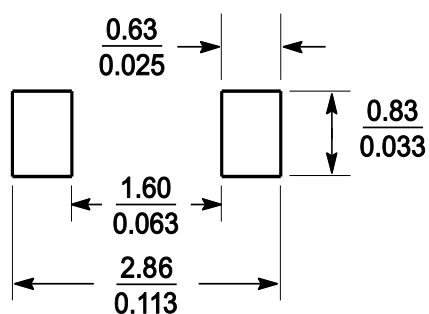
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.8	0.9	1	0.031	0.035	0.04
A1	0	0.05	0.1	0	0.002	0.004
A3	0.15REF			0.006REF		
b	0.25	0.32	0.4	0.01	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.6	1.7	1.8	0.062	0.066	0.07
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.3	2.5	2.7	0.09	0.098	0.105

8.SOLDERING FOOTPRINT



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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- 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.