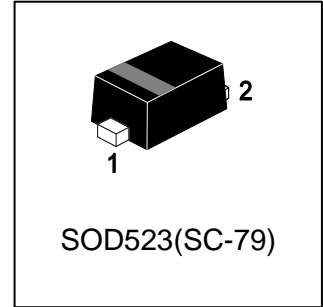


LRB520S-40T1G

SCHOTTKY BARRIER DIODE

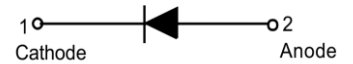
1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Extremely fast switching speed
- Low reverse current



2. APPLICATIONS

- Low current rectification and high speed switching



3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LRB520S-40T1G	D	3000/Tape&Reel
LRB520S-40T5G	D	8000/Tape&Reel

4. MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Limit	Unit
Reverse voltage(repetitive peak)	VR	40	V
DC reverse voltage	VR	40	V
Average rectified forward current	IO	200	mA
Peak forward surge current	IFSM	1	A

5. THERMAL CHARACTERISTICS

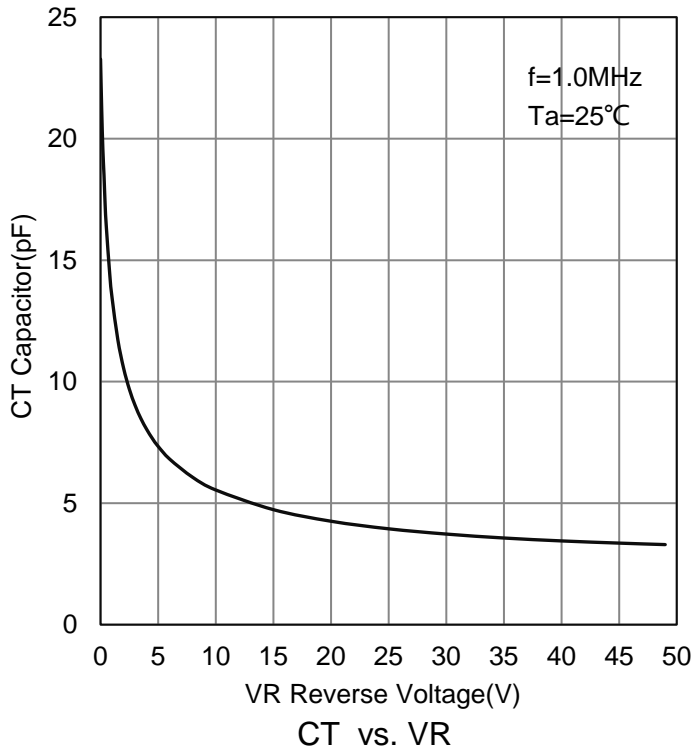
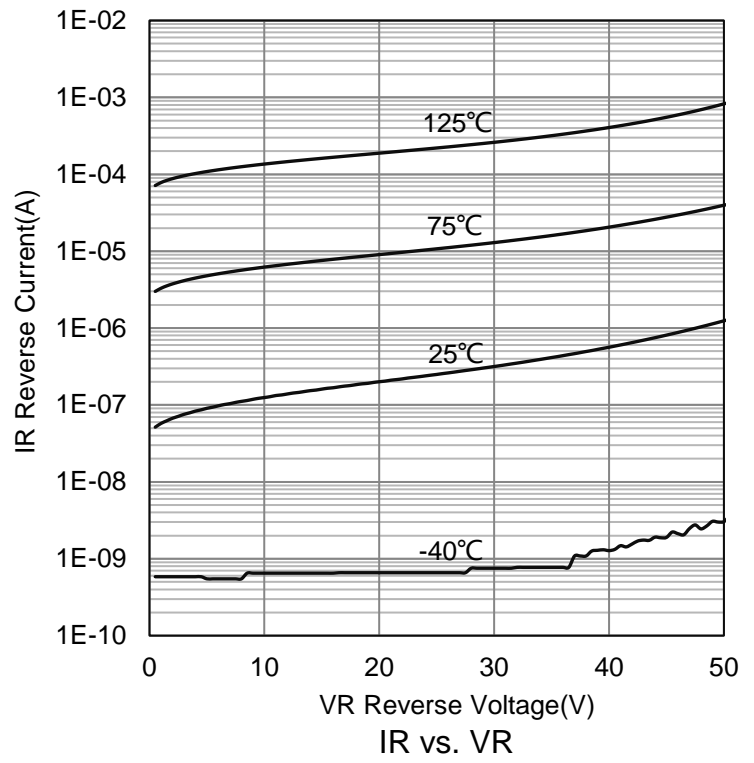
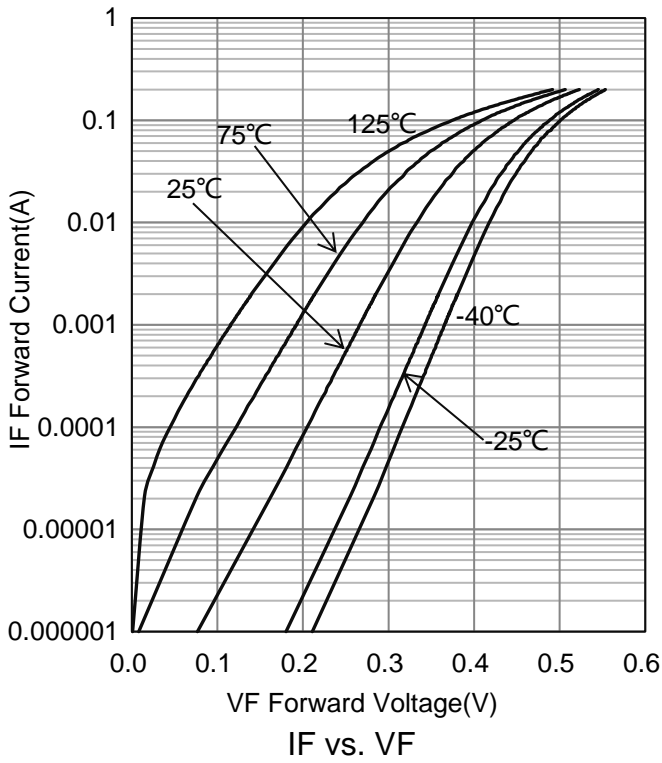
Parameter	Symbol	Limits	Unit
Total Device Dissipation, (Note 1) @ TA = 25°C	PD	200	mW
Thermal Resistance, Junction-to-Ambient(Note 1)	RθJA	500	°C/W
Junction temperature	Tj	-55~+125	°C
Storage temperature	Tstg	-55~+125	°C

1. 30.0mm×25.0mm×1.6mm(FR4)

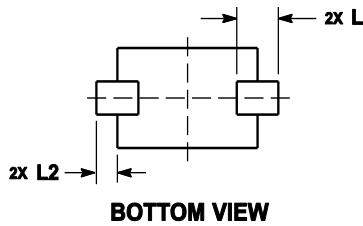
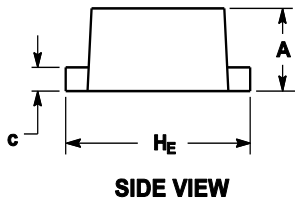
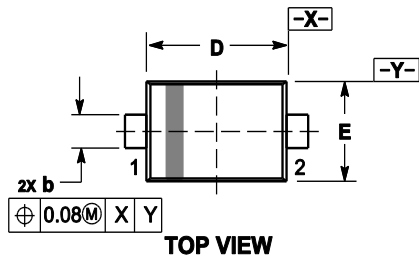
6. ELECTRICAL CHARACTERISTICS (T_j =25°C unless otherwise specified.)

Parameter	Symbol	Min	Typ.	Max	Unit
Forward voltage (I _F =10mA)	VF	-	-	0.39	V
(I _F =100mA)		-	-	0.55	
Reverse current (V _R =10V)	IR	-	-	1	μA
(V _R =40V)		-	-	10	

7.ELECTRICAL CHARACTERISTICS CURVES



8. OUTLINE AND DIMENSIONS

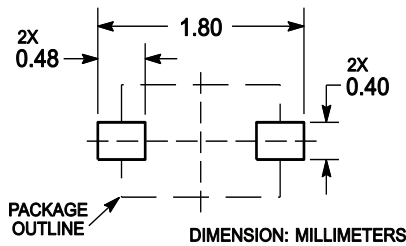


Notes:

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	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
c	0.07	0.14	0.20	0.003	0.006	0.008
D	1.10	1.20	1.30	0.043	0.047	0.051
E	0.70	0.80	0.90	0.028	0.031	0.035
H _E	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
L ₂	0.15	0.20	0.25	0.006	0.008	0.010

9. 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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