

RB520S-40

S-RB520S-40

SCHOTTKY BARRIER DIODE

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.
- 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
RB520S-40	D	3000/Tape&Reel

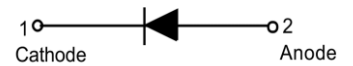
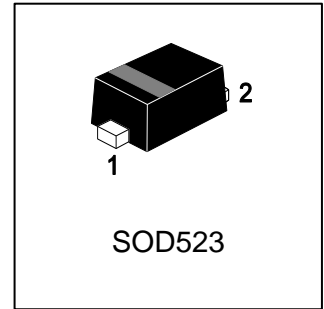
4. MAXIMUM RATINGS (Ta = 25°C)

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	125	°C
Storage temperature	Tstg	-40~+125	°C

1. 30.0mm×25.0mm×1.6mm(FR4)

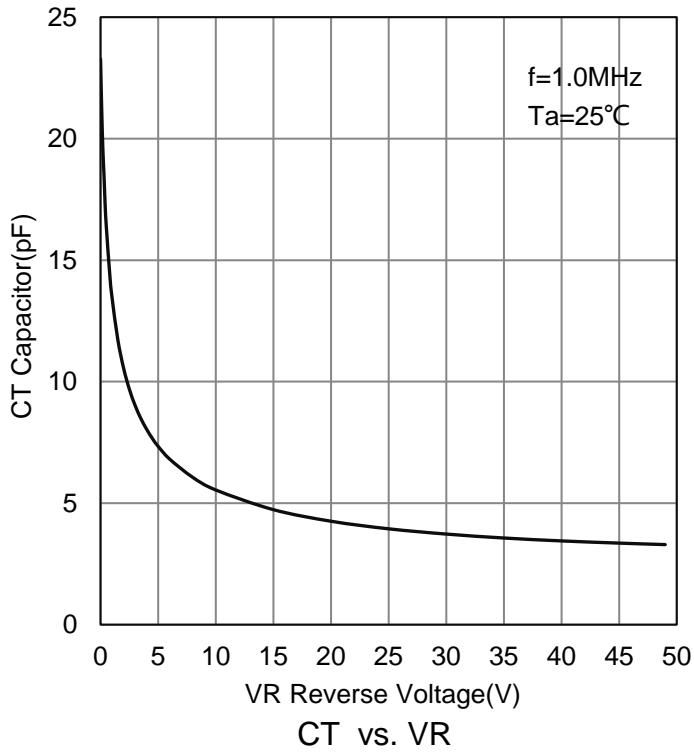
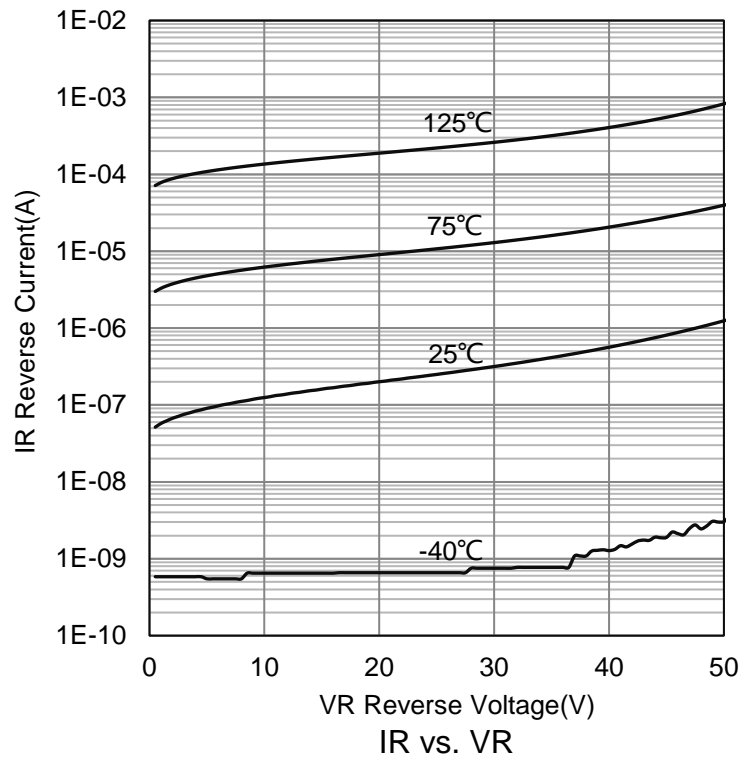
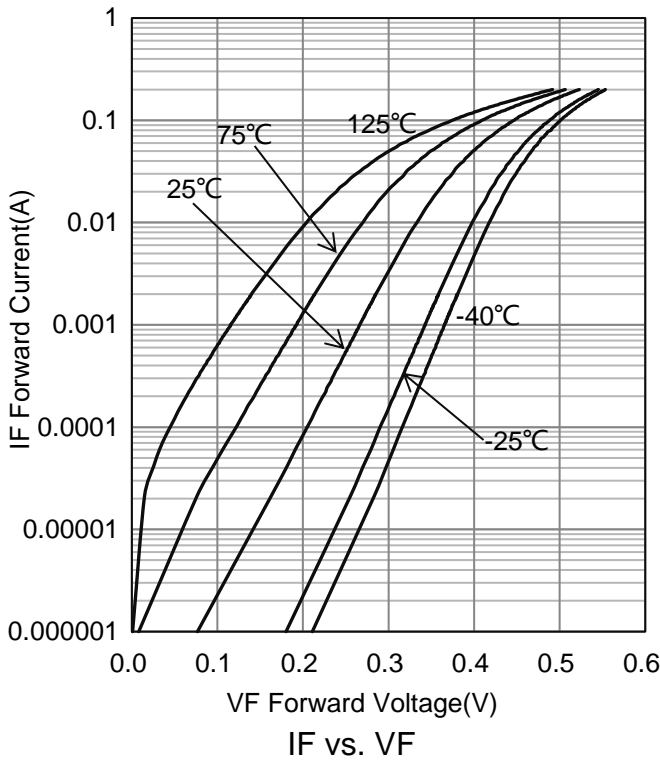


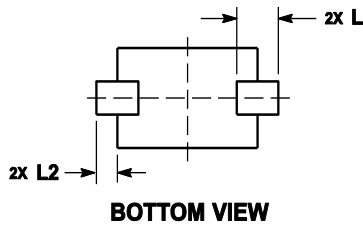
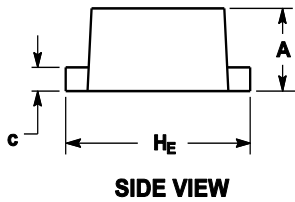
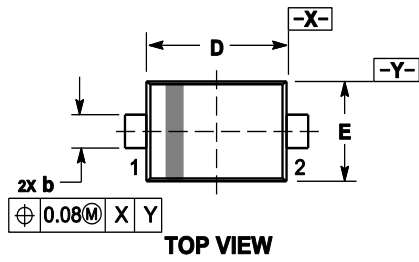
6. ELECTRICAL CHARACTERISTICS (Tj =25°C unless otherwise specified.)

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