

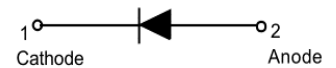
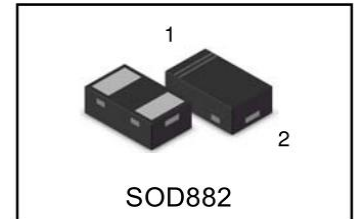
LRB520BS-40T5G

S-LRB520BS-40T5G

Schottky barrier diode

1. FEATURES

- Extremely small surface mounting type. (SOD882)
- Low IR
- 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. APPLICATIONS

- Low current rectification and high speed switching

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LRB520BS-40T5G	D1	10000/Tape&Reel

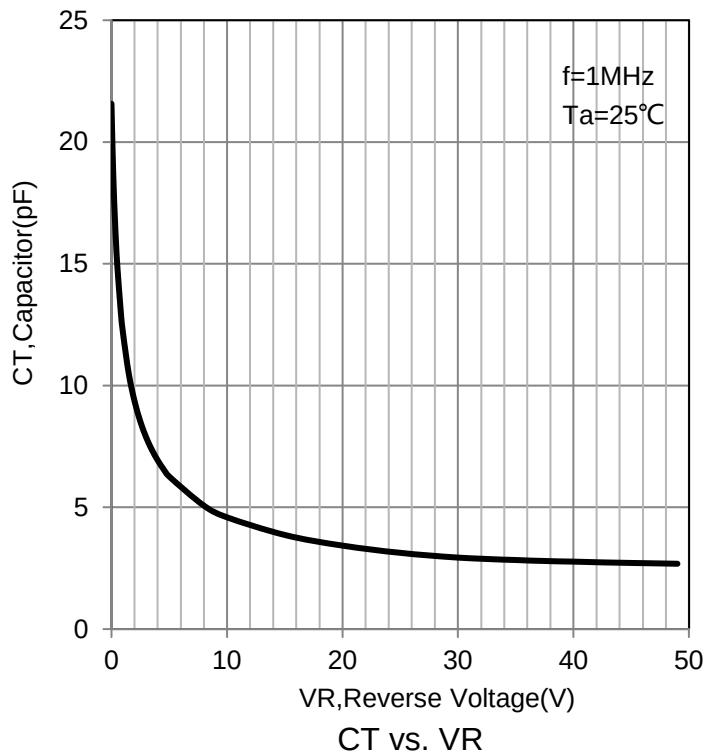
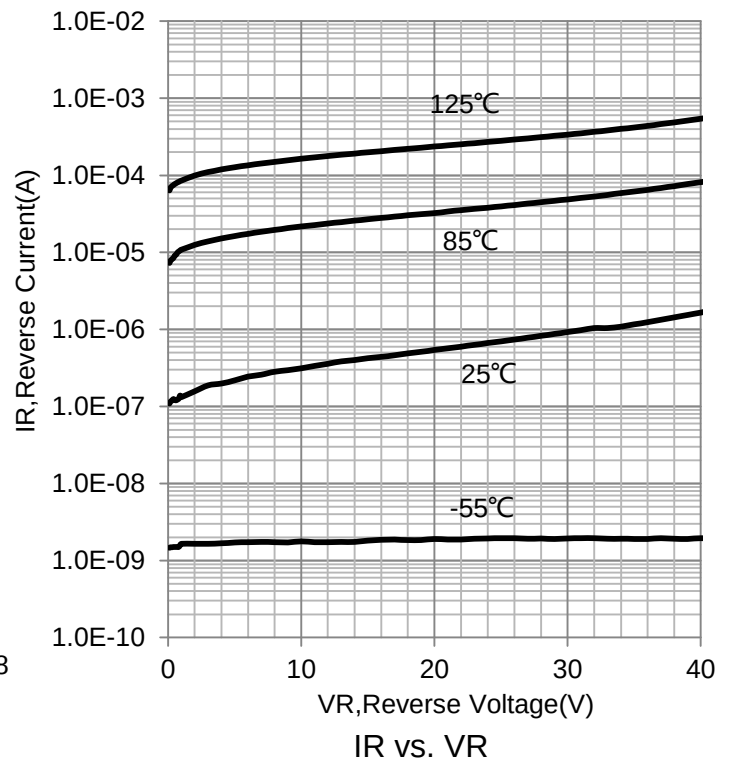
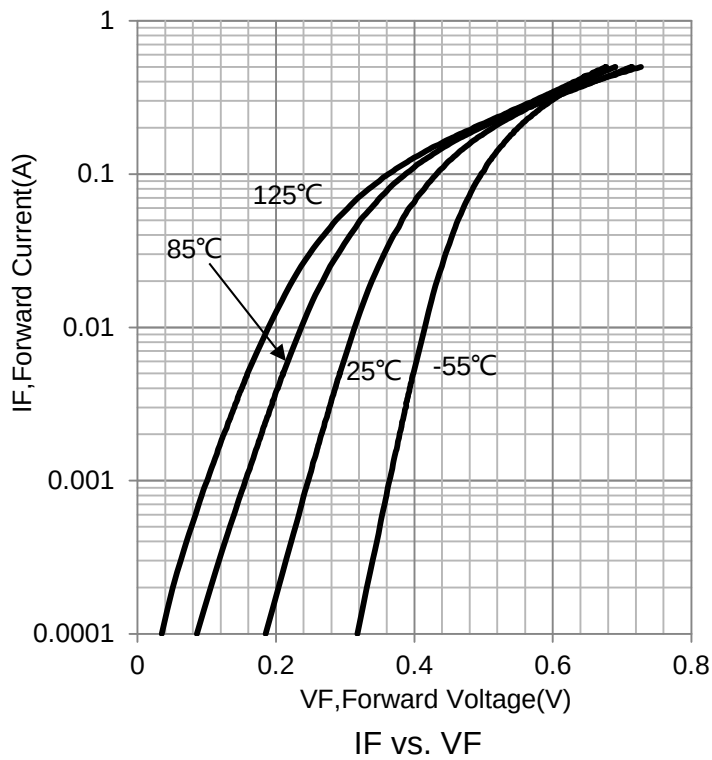
4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage(DC)	VR	40	V
Average rectified forward current	Io	200	mA
Peak forward surge current	IFSM	1	A
Junction temperature	Tj	125	°C
Storage Temperature Range	TSTG	-40~+125	°C

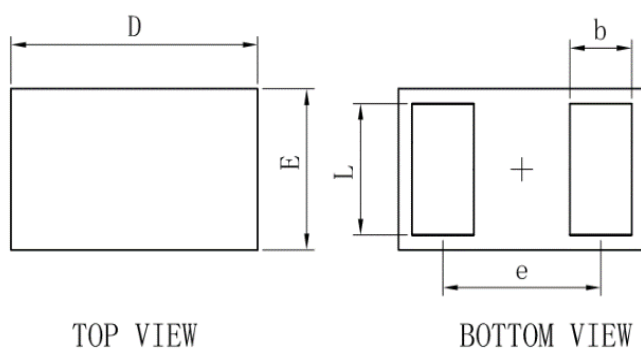
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

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	
Reverse recovery time (IF=IR=10mA,Irr=0.1 x IR ,RL=100Ω)	trr	-	-	6	ns
Junction Capacitance (f=1MHz,Level=50mV,VR=0V)	Cj	-	-	30	pF

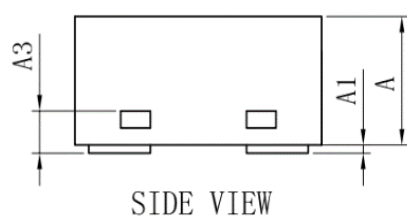
6.ELECTRICAL CHARACTERISTICS CURVES



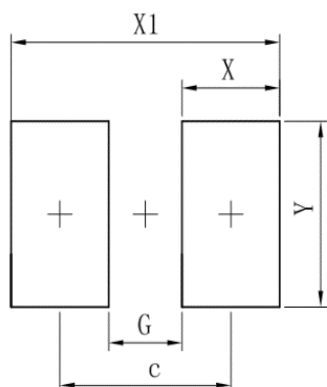
7.OUTLINE AND DIMENSIONS



SOD882			
Dim	Min	Typ.	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			



8.SOLDERING FOOTPRINT



Dimensions	(mm)
c	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70