

LMBR01S30ST5G

S-LMBR01S30ST5G

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 small surface mounting type.(DFN0603)
- Low IR.
- High reliability.

2. APPLICATIONS

- Low current rectification

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBR01S30ST5G	S (Rotate 90°ccw)	15000/Tape&Reel

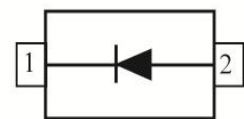
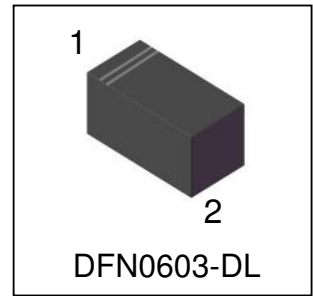
4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	VR	30	V
Mean Rectifying Current	IO	200	mA
Peak Forward Surge Current	IFSM	2	A

5. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 1.58	mW mW/°C
Thermal Resistance, Junction-to-Ambient(Note 1)	RθJA	635	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature Range	Tstg	-40 ~ +150	°C
Operating Temperature Range	Top	-40 ~ +150	°C

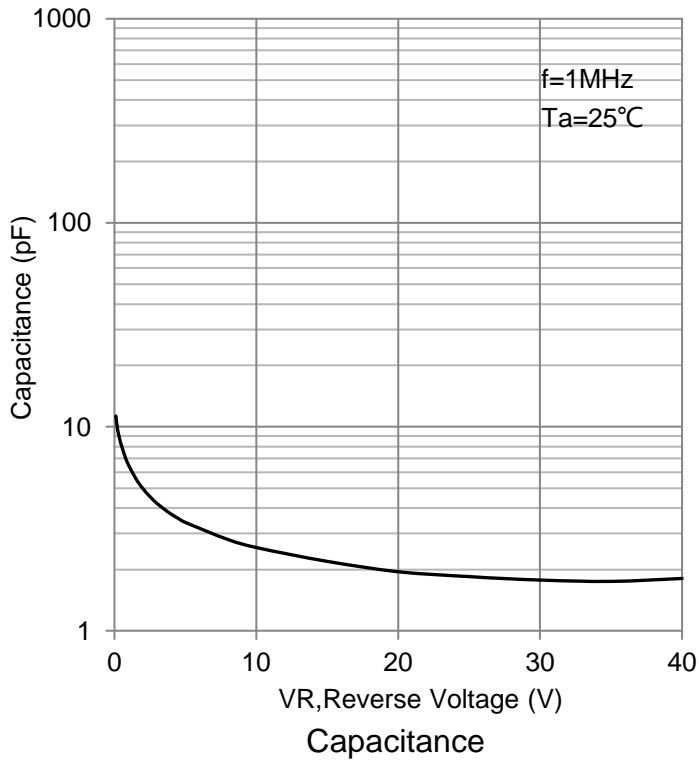
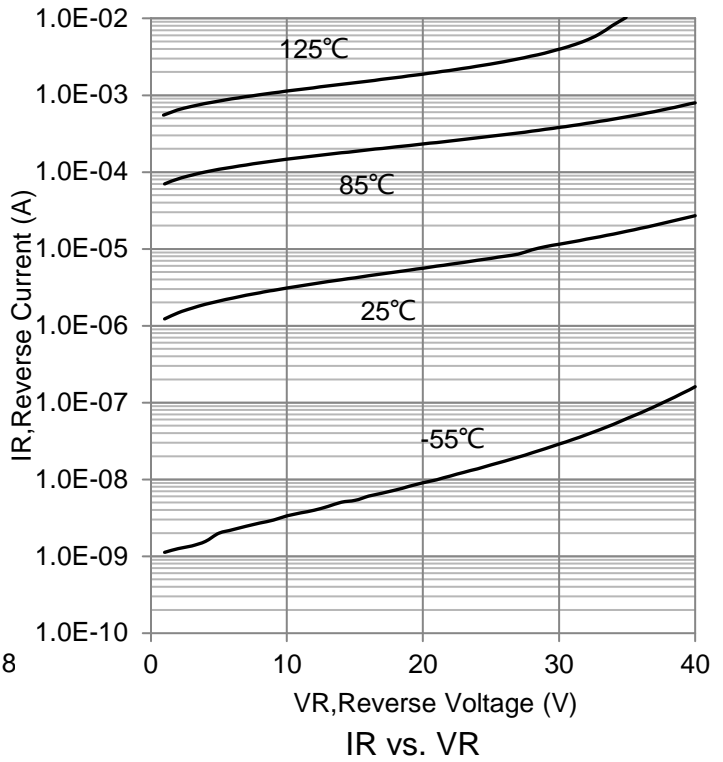
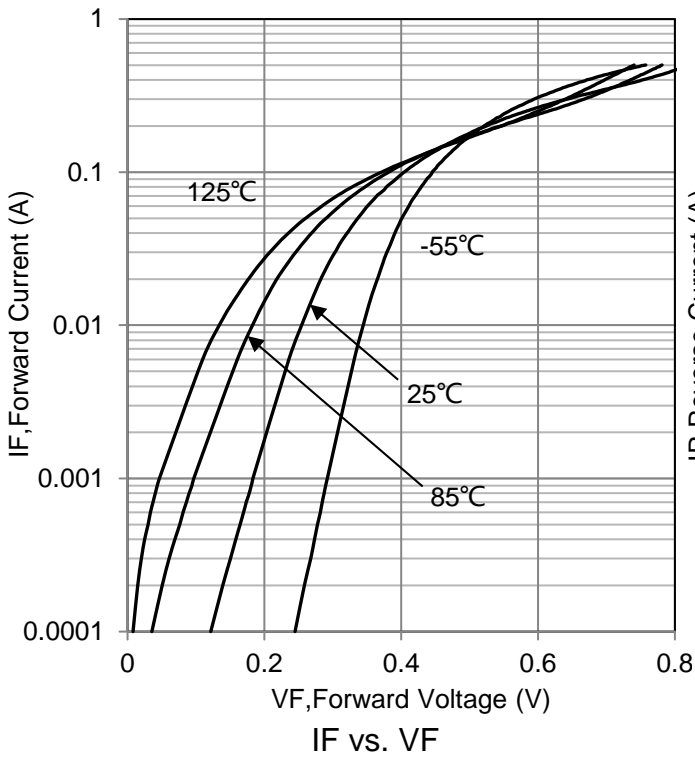
1. FR-5 = 1.0×0.75×0.062 in.

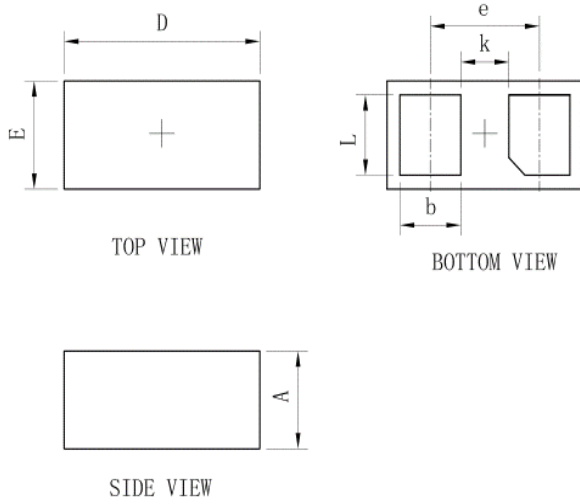


6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

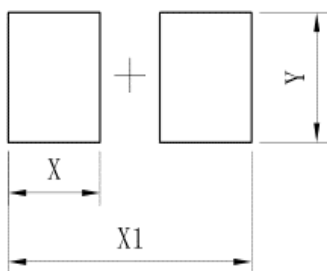
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage Leakage Current (VR = 10V)	IR	-	-	10	μA
(VR = 30V)		-	-	20	
Diode Capacitance (VR = 0V , f = 1.0 MHz)	CT	-	8.2	-	pF
Forward Voltage (IF = 60 mA)	VF	-	-	0.37	V
(IF = 10 mA)		-	-	0.3	

7. ELECTRICAL CHARACTERISTICS CURVES



8. OUTLINE AND DIMENSIONS


DFN0603-DL			
Dim	Min	Typ.	Max
D	0.58	0.61	0.64
E	0.28	0.31	0.34
e	-	0.34	-
L	0.20	0.23	0.26
b	0.16	0.19	0.22
A	0.25	0.28	0.31
k	0.12	0.15	0.18
All Dimensions in mm			

9. SOLDERING FOOTPRINT


DFN0603-DL	
DIM	(mm)
X	0.23
X1	0.61
Y	0.30

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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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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