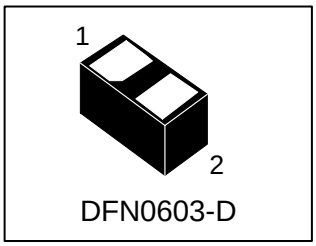
LDSR01S30ST5G
S-LDSR01S30ST5G

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.



R=Device Code
X=Month Code

2. APPLICATIONS

- Low current rectification

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LDSR01S30ST5G	R	15000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25ºC)

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	VR	30	V
Mean Rectifying Current	IO	100	mA
Peak Forward Surge Current	IFSM	2	A

5. THERMAL CHARACTERISTICS

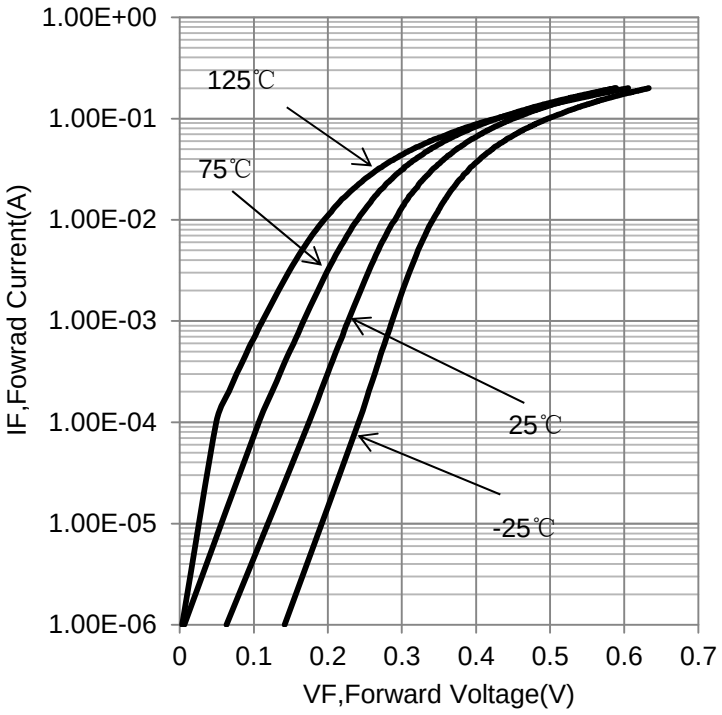
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR−5 Board (Note 1) @ TA = 25ºC Derate above 25ºC	PD	 200 1.58	 mW mW/ºC
Thermal Resistance, Junction–to–Ambient(Note 1)	RΘJA	500	ºC/W
Junction Temperature	TJ	125	ºC
Storage Temperature Range	Tstg	−40～+150	ºC
Operating Temperature Range	Top	−40～+125	ºC

1. FR–5 = 1.0×0.75×0.062 in.

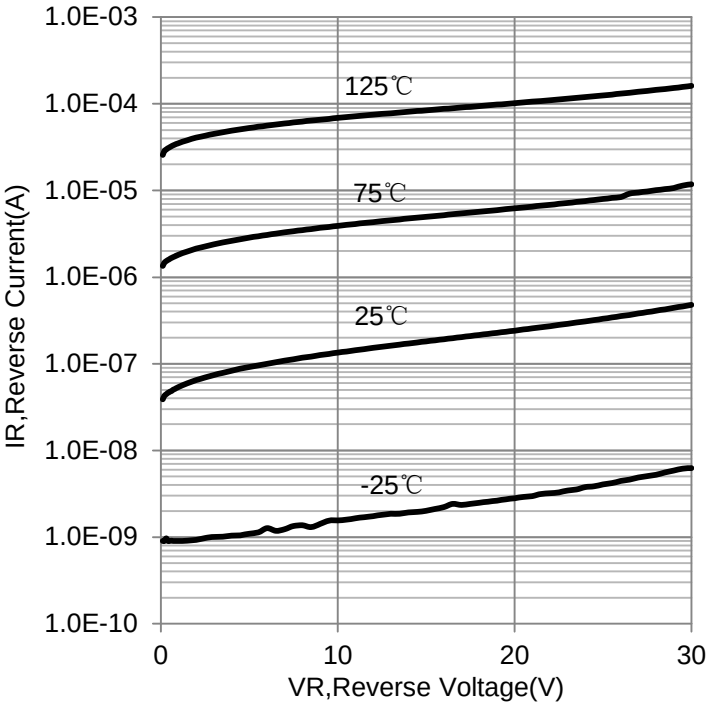
6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage Leakage Current	IR				μA
(VR = 10Vdc)		-	-	0.35	
(VR = 30Vdc)		-	-	0.7	
Diode Capacitance	CT				pF
(VR = 0V , f = 1.0 MHz)		-	8.2	-	
Forward Voltage	VF				V
(IF = 100 mAdc)		-	-	0.62	
(IF = 10 mAdc)		-	-	0.5	

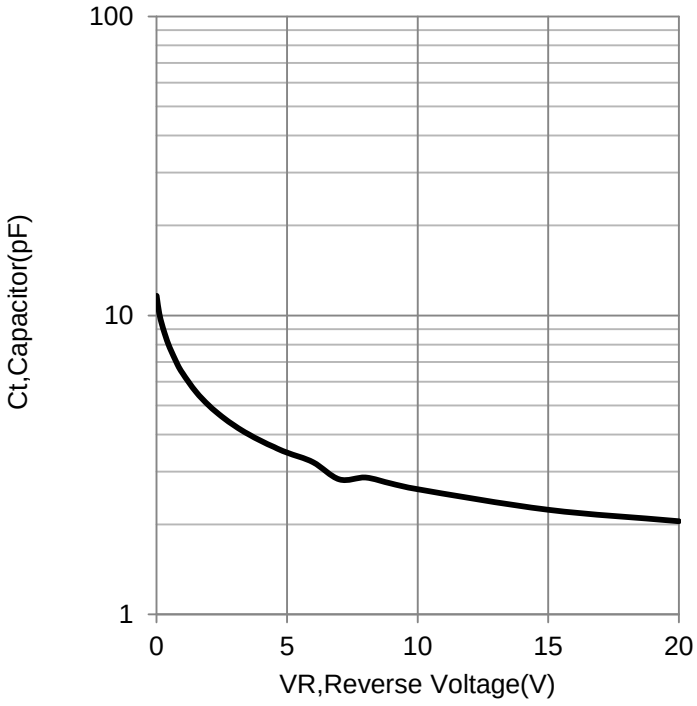
7. ELECTRICAL CHARACTERISTICS CURVES



Forward Characteristics

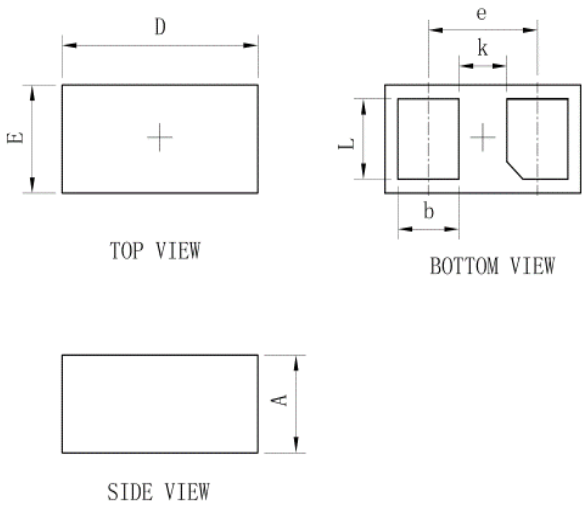


Reverse Characteristics



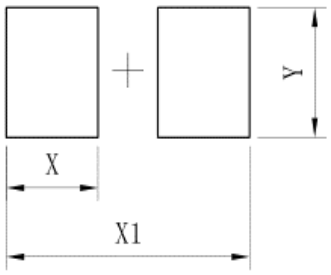
Capacitor Characteristics

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