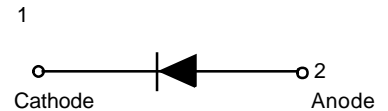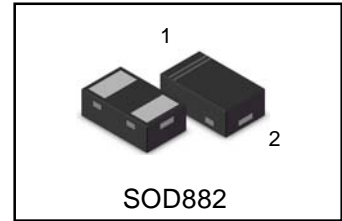# LNZ8F5V6T5G
S-LNZ8F5V6T5G

Zener Voltage Regulators
200 mW SOD− Surface Mount

1. FEATURES

- Standard Zener Breakdown Voltage Range − 2.4 V to 24 V
- Steady State Power Rating of 200 mW
- ESD Rating of Class 3 (>16 kV) per Human Body Model
- 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.

SOD882

Cathode 1 —▷|— 2 Anode

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LNZ8F5V6T5G	5	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25ºC)

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR−5 Board (Note 1) @ TA = 25ºC	PD	200	mW
Junction and Storage temperature	TJ,Tstg	−65 〜+150	°C

4. ELECTRICAL CHARACTERISTICS

Device	Zener Voltage (Note1)				Zener Impedance			Leakage Current				θVZ (mV/k) @ IZT		C(PF) @ VR = 0 f = 1 MHz
	VZ (Volts)			@ IZT	@ IZT	ZZK @ IZK		IR @ VR		IR @ VR				
	Min	Typ.	Max	mA	Ω	Ω	mA	µA	Volts	µA	Volts	Min	Max	Max
LNZ8F5V6T5G	5.32	5.6	5.88	5	60	200	0.5	10	3.8	1	2.5	-2	2.5	115

1. Zener voltage is measured with a pulse test current IZ at an ambient temperature of 25°C.
2. TA = 25°C unless otherwise noted, VF = 0.9 V Max. @ IF = 10 mA for all types)
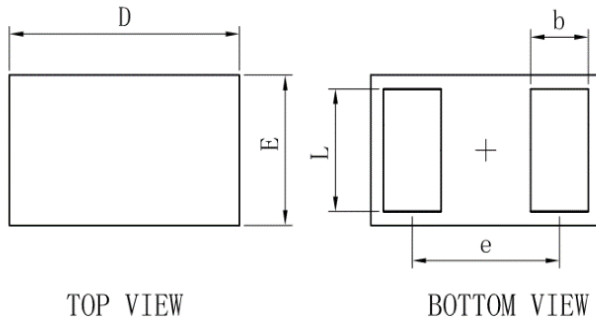
| Symbol	Parameter
VZ	Reverse Zener Voltage @ IZT
IZT	Reverse Current
ZZT	Maximum Zener Impedance @ IZT
IZK	Reverse Current
ZZK	Maximum Zener Impedance @ IZK
IR	Reverse Leakage Current @ VR
VR	Reverse Voltage
IF	Forward Current
VF	Forward Voltage @ IF
θVZ	Maximum Temperature Coefficient of VZ
C	Max. Capacitance @VR = 0 and f = 1 MHz

Zener Voltage Regulator
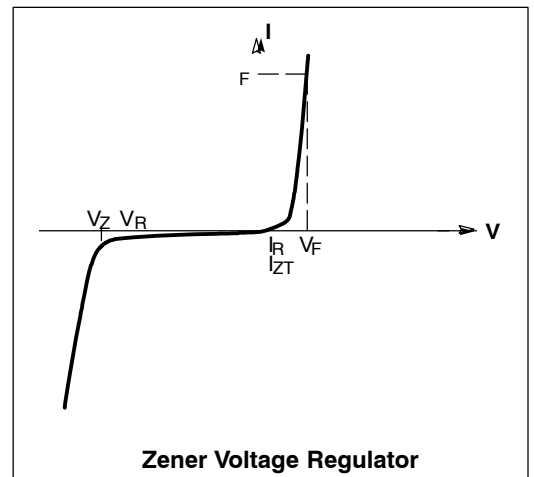
5. ELECTRICAL CHARACTERISTICS CURVES

IF vs. VF

IZ VS. VZ

CT vs. VR
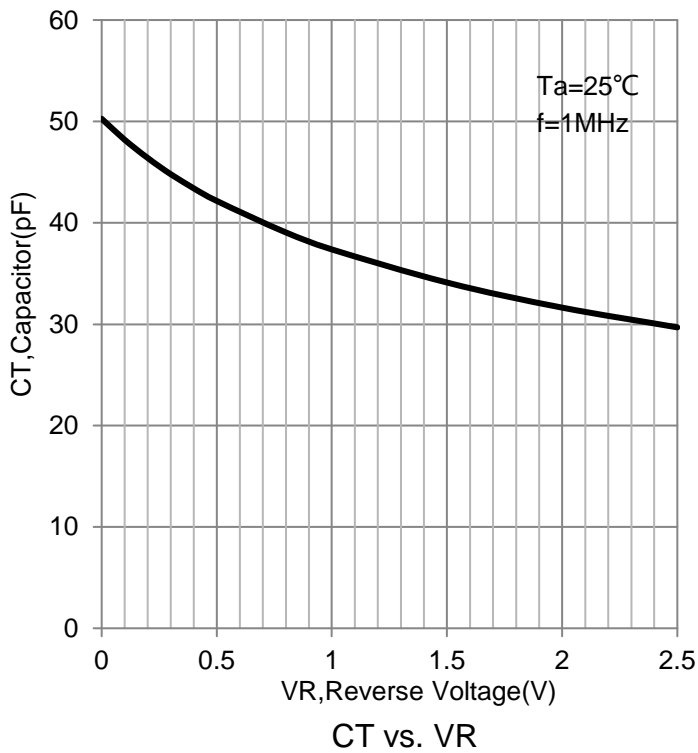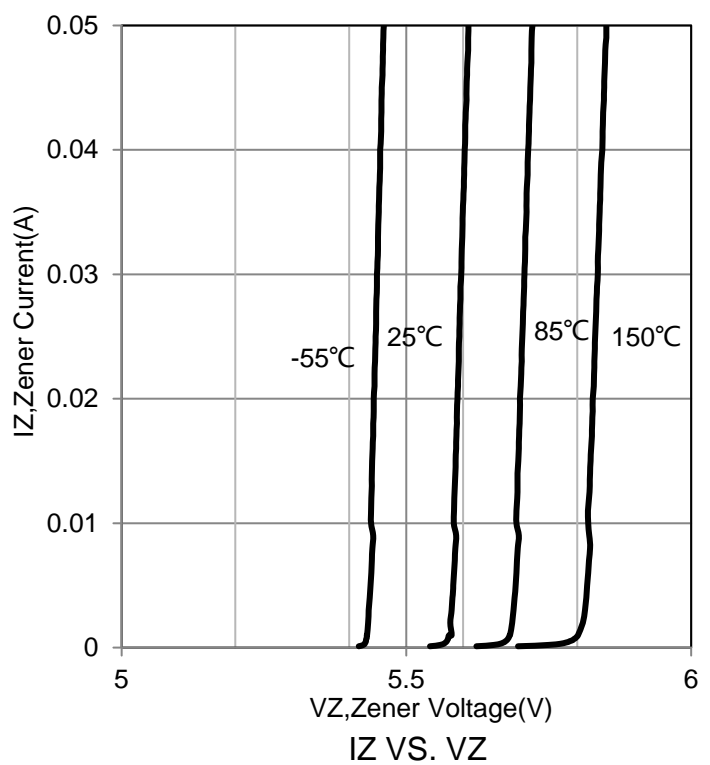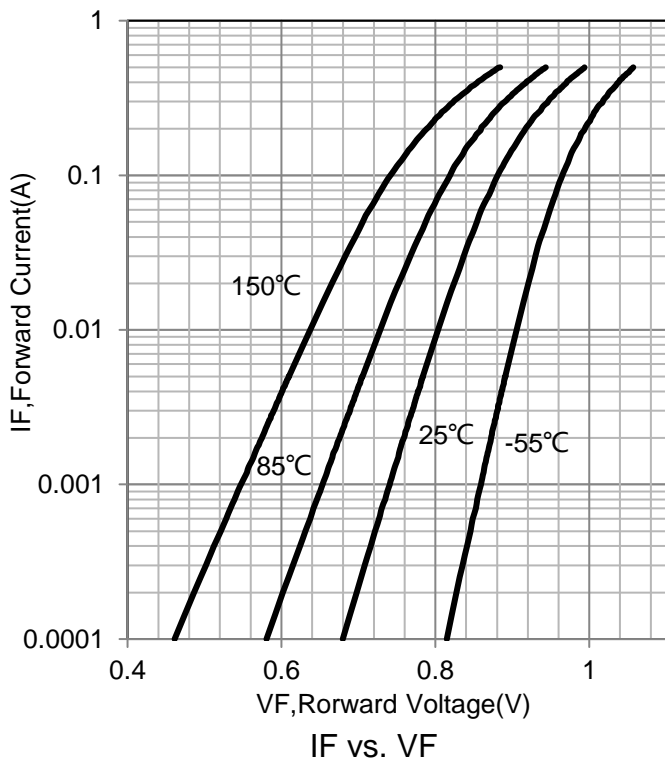
6.OUTLINE AND DIMENSIONS

TOP VIEW

BOTTOM VIEW

SIDE VIEW

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			
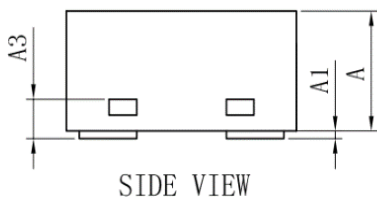
7.SOLDERING FOOTPRINT
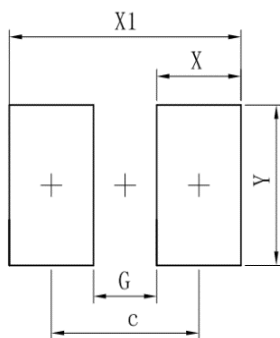
Dimensions	(mm)
c	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70