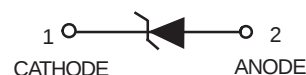
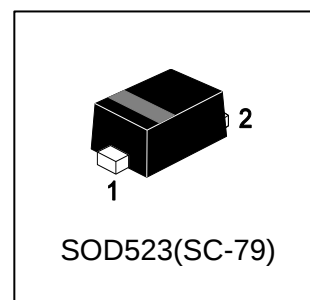


LM5Z3V9T1G

Zener Voltage Regulators

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Standard Zener Breakdown Voltage: 3.9 V
- Steady State Power Rating of 200 mW
- ESD Rating of Class 3 per Human Body Model
- Device Meets MSL 1 Requirements



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LM5Z3V9T1G	07	5000/Tape&Reel
LM5Z3V9T5G	07	10000/Tape&Reel

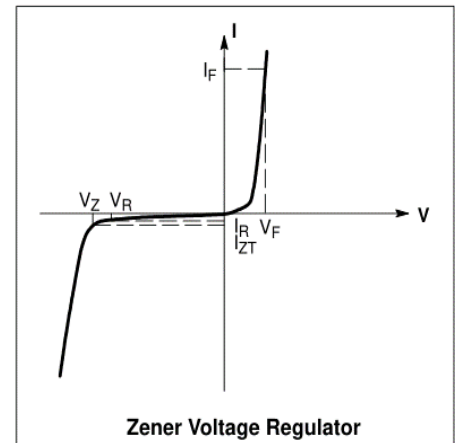
3. MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Total Device Dissipation FR-4 Board,@ TA = 25°C	PD	200	mW
Thermal Resistance Junction-to-Ambient	RθJA	520	°C/W
Thermal Resistance Junction-to-Case	RθJC	220	°C/W
Junction and Storage Temperature Range	TJ,Tstg	-65~+150	°C

1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

4. ELECTRICAL CHARACTERISTICS(TA = 25°C unless otherwise noted)

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

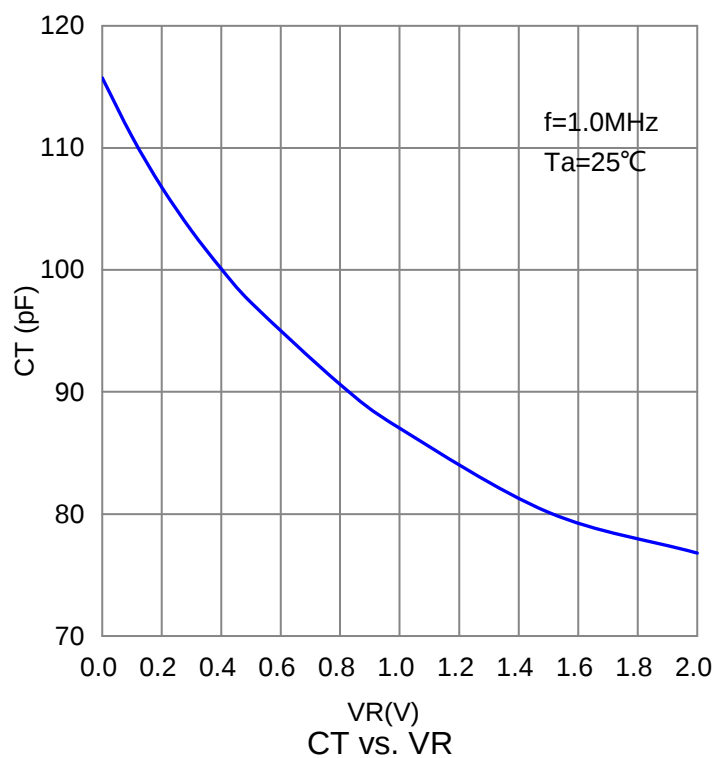
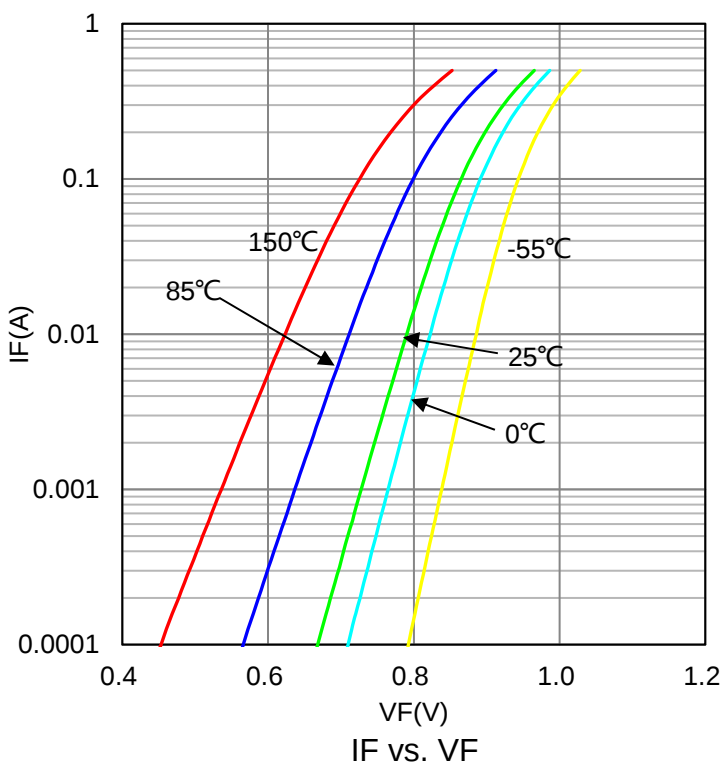
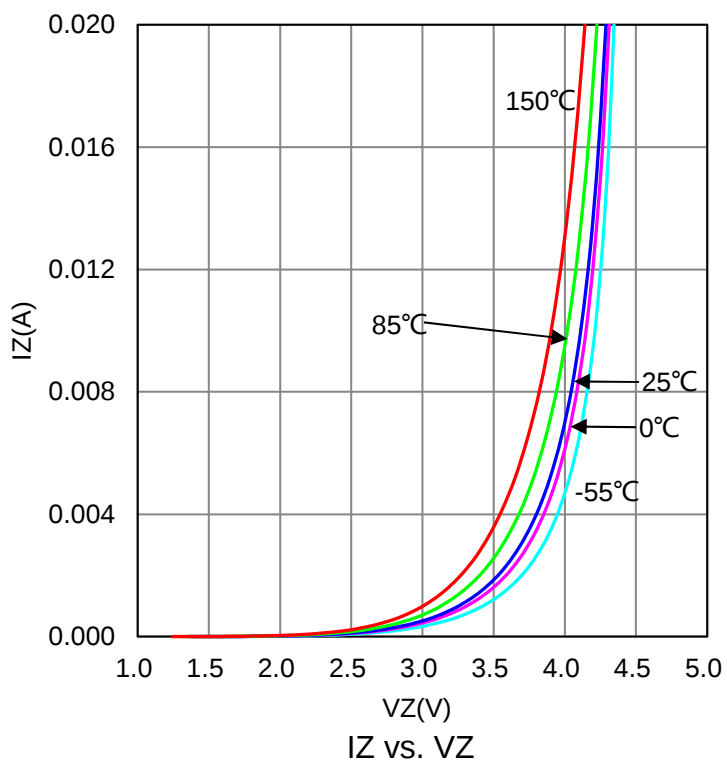


5. ELECTRICAL CHARACTERISTICS

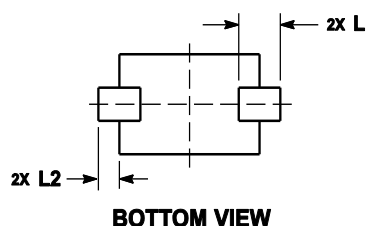
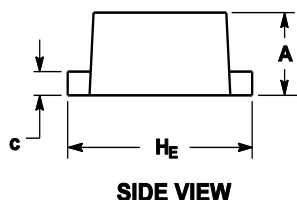
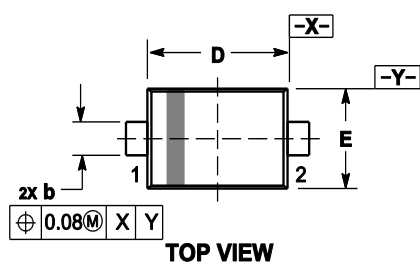
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Forward voltage (IF=10mA)	VF	-	-	0.9	V
Reverse Zener Voltage (IZT=5mA)	VZ	3.7	3.9	4.1	V
Maximum Zener Impedance (IZT=5mA)	ZZT	-	-	90	Ω
Maximum Zener Impedance (IZK=1mA)	ZZK	-	-	1000	Ω
Reverse Leakage Current (VR=1V)	IR	-	-	3	μA
Maximum Capacitance (VR = 0 , f = 1 MHz)	C	-	-	450	pF

2. Zener voltage is measured with a pulse test current IZ at an ambient temperature of 25°C.

6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS

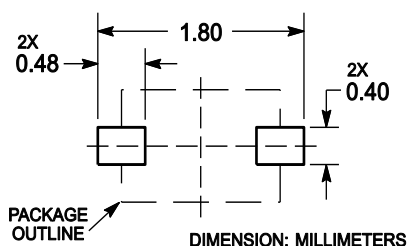


Notes:

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

8.SOLDERING FOOTPRINT



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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