Zener Diode
TMMSZ4710HE

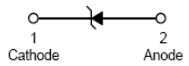
Features

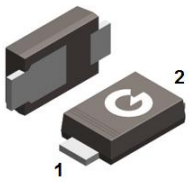
HF

- Tight voltage tolerance: ±5%
- Ultra low-profile package well suited for automated assembly
- Moisture sensitivity level 1
- RoHS compliant with Halogen-free
- Qualified to AEC-Q101 standards for high reliability

Mechanical Data

- Case: SOD-323T
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208





SOD-323T

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
TMMSZ4710HE	SOD-323T	4000 pcs / Tape & Reel	DY

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	500	mW
Thermal Resistance Junction-to-Air *1	$R_{\theta JA}$	100	°C/W
Thermal Resistance Junction-to-Case *1	$R_{\theta JC}$	52	°C/W
Thermal Resistance Junction-to-Lead *1	$R_{\theta JL}$	39	°C/W
Operating Junction Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Note 1: The data tested by surface mounted on a 25.4mm * 25.4mm * 1mm FR4-epoxy P.C.B

Electrical Characteristics (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener Voltage	V_Z	I_{ZT} = 50μA	23.75	25.00	26.25	V
Forward Voltage	V_F	I_F = 10mA	-	-	0.9	V
Maximum Reverse Current	I_R	V_R = 19V	-	-	0.01	μA
Temperature Coefficient	T_C	I_{ZT} = 50μA	-	22.096	-	mV/°C

TYPICAL CHARACTERISTICS (@ TA = 25°C unless otherwise specified)

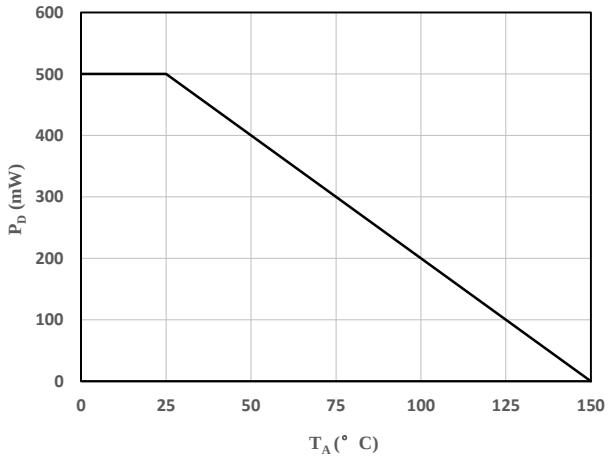


Fig 1 Steady State Power Derating

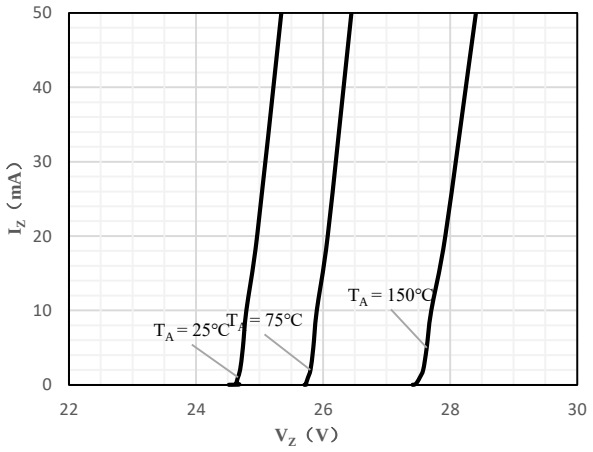


Fig 2 Typical Zener Breakdown Characteristics

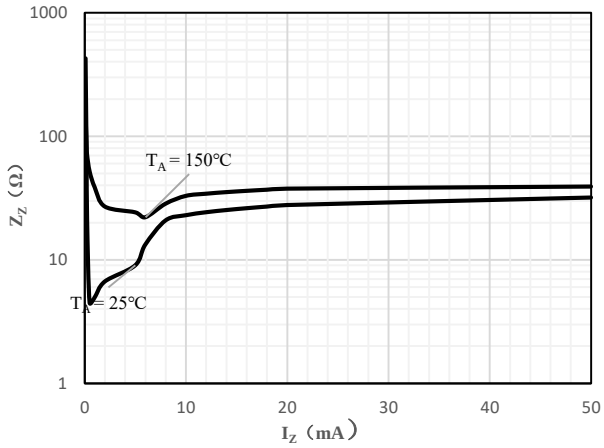


Fig 3 Zener Impedance vs. Zener Current

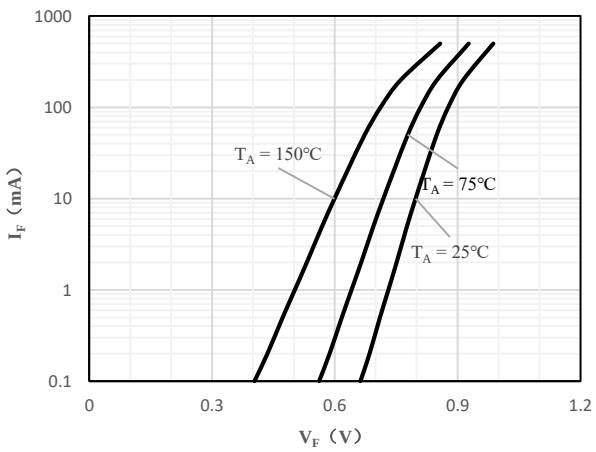


Fig 4 Typical Forward Characteristics

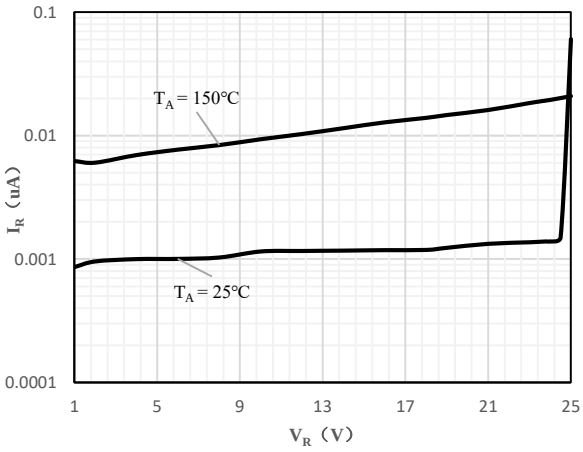
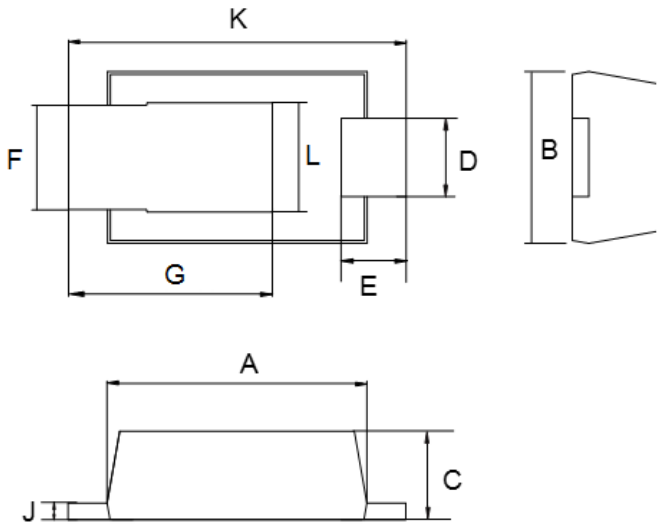


Fig 5 Typical Reverse Characteristics

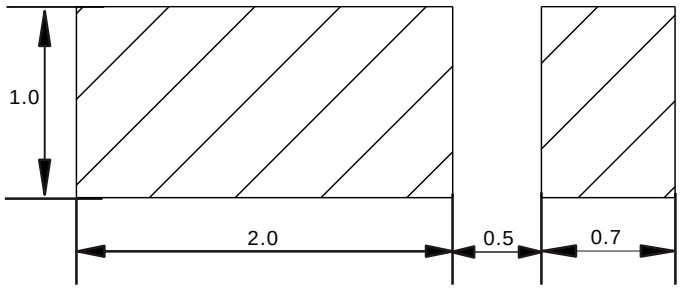
Package Outline Dimensions (Unit: mm)



SOD-323T		
Dimension	**Min.**	**Max.**
A	1.80	2.20
B	1.10	1.50
C	0.60	0.75
D	0.45	0.75
E	0.35	0.65
F	0.65	0.95
G	1.40	1.80
J	0.10	0.25
K	2.40	2.80
L	0.70	1.00

Mounting Pad Layout (Unit: mm)

SOD-323T



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