Elektronische Bauelemente

ZTS270X THRU ZTS300Z

VOLTAGE 260V ~ 310V

1.0 Watts Surface Mount Zener Diode

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

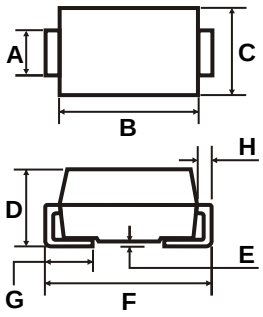
SMA



- For surface mounted applications
- 1.0 W power dissipation
- Low reverse current
- Ideally suited for automated assembly processes
- Epitaxial construction

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.064 grams



	Dimensions in Millimeters		Dimensions in Inches	
A	1.25	1.65	0.049	0.065
B	3.99	4.60	0.157	0.181
C	2.50	2.90	0.098	0.114
D	1.98	2.44	0.078	0.096
E	0.051	0.203	0.002	0.008
F	4.78	5.28	0.188	0.208
G	0.76	1.52	0.030	0.060
H	0.152	0.305	0.006	0.012

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature unless otherwise specified.

Power Dissipation	P_D	1.0	W
Maximum Forward Voltage Drop at IF=200mA	V_F	1.0	V
Operating junction and Storage Temperature	T_J, T_{STG}	-55 to +155	℃

Electrical Characteristic (Ta=25℃)

Part No.	V_Z (V)	I_{ZT} (mA)	Z_{ZT} (Ohm)	Z_{ZK} (Ohm)	I_{ZK} (mA)	$I_{R(uA)}$ Max.	V_R(V)	$V_{F(V)}$ I_F=0.2A
ZTS270X	260	1.00	2200	8500	0.25	5.0	180	1.0
ZTS270Y	270	0.90	2500	8750	0.25	5.0	200	1.0
ZTS300Y	300	0.80	3000	9000	0.25	0.5	220	1.0
ZTS300Z	310	0.75	4000	9500	0.25	0.5	240	1.0

Tolerance 5%

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RATING AND CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPATION

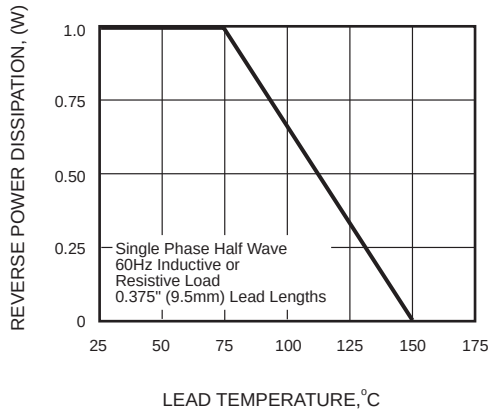


FIG. 2 - TYPICAL ZENER IMPEDANCE

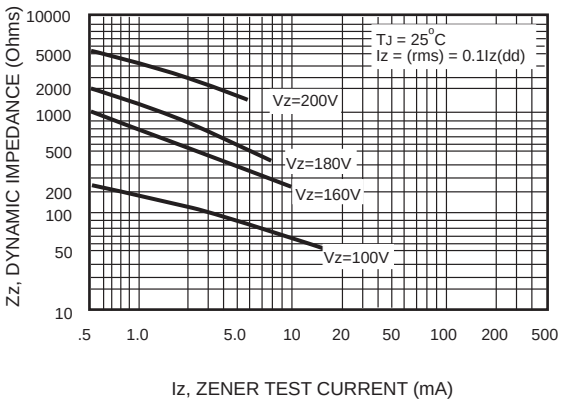


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

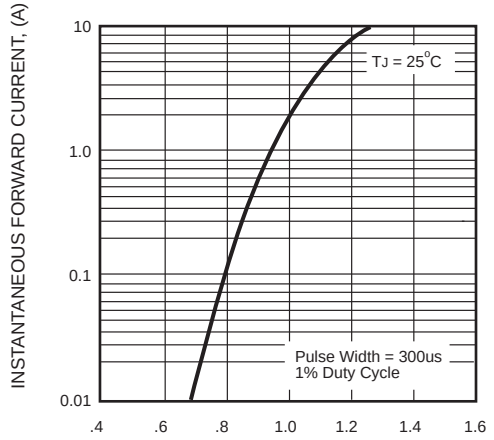


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

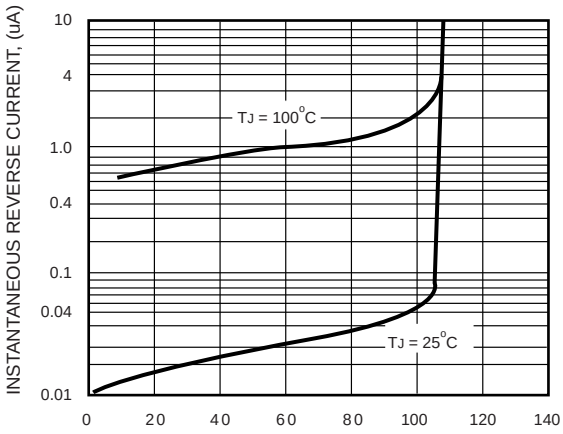


FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS

