

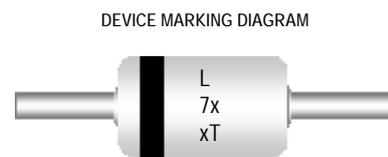
500 mW DO-35 Hermetically Sealed Glass Zener Voltage Regulators



Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Parameter	Value	Units
Power Dissipation	500	mW
Storage Temperature Range	-65 to +175	°C
Operating Junction Temperature	+175	°C

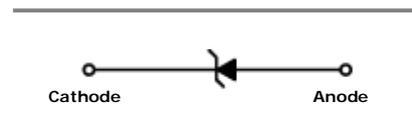
These ratings are limiting values above which the serviceability of the diode may be impaired.



L : Logo
 Device Code : TC1N7xxT
 Tolerance (T) : (Blank) = 10%
 A = 5%
 C = 2%
 D = 1%

Specification Features:

- § Zener Voltage Range 3.3 to 12 Volts
- § DO-35 Package (JEDEC)
- § Through-Hole Device Type Mounting
- § Hermetically Sealed Glass
- § Compression Bonded Construction
- § All External Surfaces Are Corrosion Resistant And Leads Are Readily Solderable
- § RoHS Compliant
- § Solder Hot Dip Tin (Sn) Lead Finish
- § Cathode Indicated By Polarity Band



Electrical Characteristics T_A = 25°C unless otherwise noted

Device Type	V _Z @ I _{ZT} (Volts) Nominal	I _{ZT} (mA)	Z _{ZT} @ I _{ZT} (Ω) Max	I _R @ V _R (μA) Max	V _R (Volt)
TC1N746A	3.3	20	28	10	1
TC1N747A	3.6	20	24	10	1
TC1N748A	3.9	20	23	10	1
TC1N749A	4.3	20	22	2	1
TC1N750A	4.7	20	19	2	1
TC1N751A	5.1	20	17	1	1
TC1N752A	5.6	20	11	1	1
TC1N753A	6.2	20	7	0.1	1
TC1N754A	6.8	20	5	0.1	1
TC1N755A	7.5	20	6	0.1	1
TC1N756A	8.2	20	8	0.1	1
TC1N757A	9.1	20	10	0.1	1
TC1N758A	10	20	17	0.1	1
TC1N759A	12	20	30	0.1	1

V_F Forward Voltage = 1.5 V Maximum @ I_F = 200 mA for all types

Notes:**1. TOLERANCE AND VOLTAGE DESIGNATION**

The type numbers listed have zener voltage as shown and have a standard tolerance on the nominal zener voltage of $\pm 5\%$. Suffix (BLANK) = $\pm 10\%$, Suffix C = $\pm 2\%$ and D = $\pm 1\%$.

2. SPECIALS AVAILABLE INCLUDE

Nominal zener voltages between the voltages shown and tighter voltage, for detailed information on price, availability and delivery, contact you nearest Tak Cheong representative.

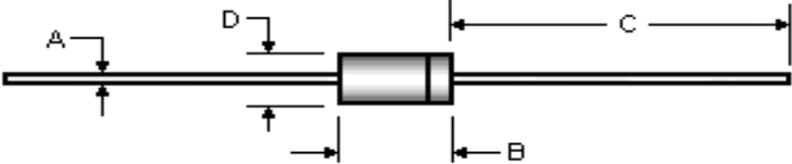
3. ZENER VOLTAGE (V_Z) MEASUREMENT

The zener voltage (V_Z) is tested under pulse condition.

4. ZENER IMPEDANCE (Z_Z) DERIVATION

Zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an RMS value equal to 10% of the dc zener current (I_{ZT}) is superimposed to I_{ZT} .

Package Outline

Package	Case Outline				
DO-35					
	DO-35				
	DIM	Millimeters		Inches	
		Min	Max	Min	Max
	A	0.46	0.55	0.018	0.022
	B	---	5.08	---	0.200
C	25.40	38.10	1.000	1.500	
D	1.53	2.28	0.060	0.090	

Notes:

1. All dimensions are within JEDEC standard.
2. DO35 polarity denoted by cathode band.