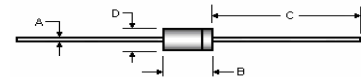


500 mW DO-35 Hermetically Sealed Glass Zener Voltage F Y [i `Uhcf g



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

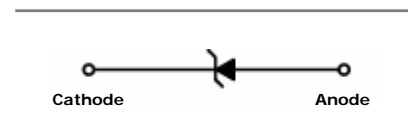
Parameter	Value	Units
Power Dissipation	500	mW
Storage Temperature Range	-65 to +175	$^\circ\text{C}$
Operating Junction Temperature	+175	$^\circ\text{C}$

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

DIM	DO-35			
	Millimeters		Inches	
	Min	Max	Min	Max
A	0.46	0.55	0.018	0.022
B	3.05	5.08	0.120	0.200
C	25.40	38.10	1.000	1.500
D	1.53	2.28	0.060	0.090

Specification Features:

- Zener Voltage Range 2.0 to 75 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) Terminal Finish
- Cathode Indicated By Polarity Band



ELECTRICAL SYMBOL

Electrical Characteristics $T_A = 25^\circ\text{C}$ 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 (Volts)
HG2V0	2.0	5	100	120	0.5
HG2V2	2.2	5	100	120	0.7
HG2V4	2.4	5	100	120	1
HG2V7	2.7	5	110	100	1
HG3V0	3.0	5	120	50	1
HG3V3	3.3	5	120	20	1
HG3V6	3.6	5	100	10	1
HG3V9	3.9	5	100	5	1
HG4V3	4.3	5	100	5	1
HG4V7	4.7	5	80	5	1
HG5V1	5.1	5	80	5	1.5
HG5V6	5.6	5	60	5	2.5
HG6V2	6.2	5	60	5	3
HG6V8	6.8	5	20	2	3.5
HG7V5	7.5	5	20	0.5	4
HG8V2	8.2	5	20	0.5	5
HG9V1	9.1	5	25	0.5	6
HG10V	10	5	30	0.2	7
HG11V	11	5	30	0.2	8
HG12V	12	5	30	0.2	9

Electrical Characteristics $T_A = 25^\circ\text{C}$ 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 (Volts)
HG13V	13	5	35	0.2	10
HG15V	15	5	40	0.2	11
HG16V	16	5	40	0.2	12
HG18V	18	5	45	0.2	13
HG20V	20	5	45	0.2	15
HG22V	22	5	30	0.2	17
HG24V	24	5	35	0.2	19
HG27V	27	2	45	0.2	21
HG30V	30	2	55	0.2	23
HG33V	33	2	65	0.2	25
HG36V	36	2	75	0.2	27
HG39V	39	2	85	0.2	30
HG43V	43	2	90	0.2	33
HG47V	47	2	90	0.2	36
HG51V	51	2	110	0.2	39
HG56V	56	2	110	0.2	43
HG62V	62	2	201	0.2	47
HG68V	68	2	230	0.2	51
HG75V	75	2	240	0.2	56

 V_F Forward Voltage = 1.2 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 $\pm 5\%$.

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 is measured under pulse conditions such that T_J is no more than 2°C above T_A .

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} .

Typical Characteristics

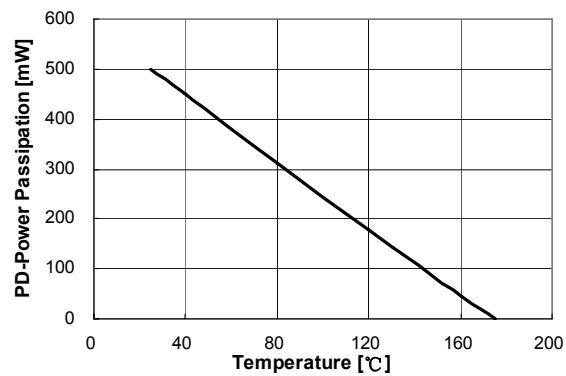


Figure 1. Power Dissipation vs Ambient Temperature
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

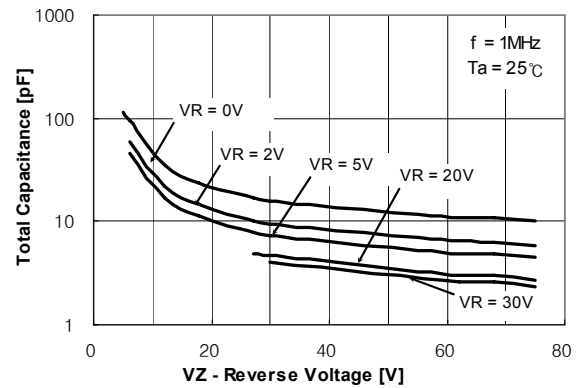


Figure 2. Total Capacitance

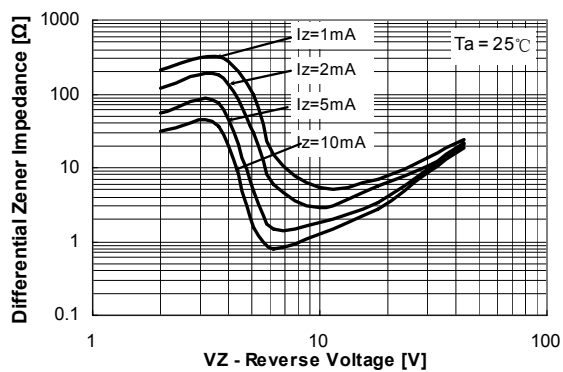


Figure 3. Differential Impedance vs. Zener Voltage

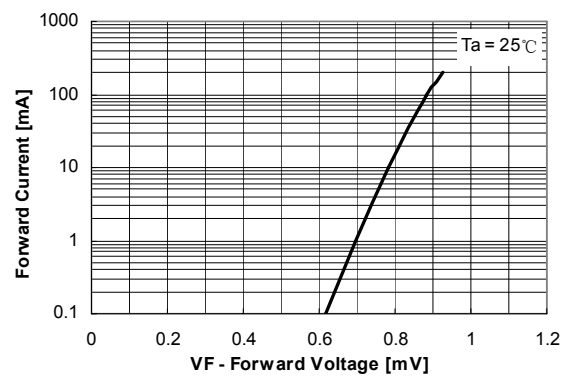


Figure 4. Forward Current vs. Forward Voltage

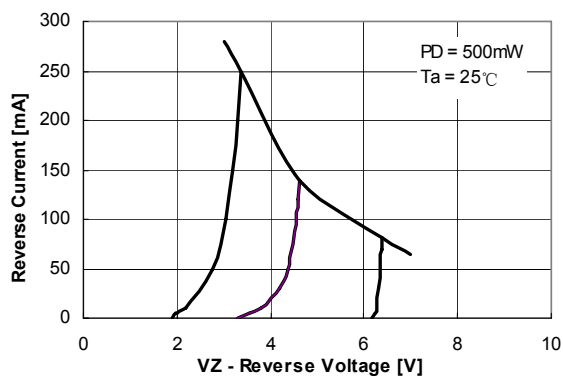


Figure 5. Reverse Current vs. Reverse Voltage

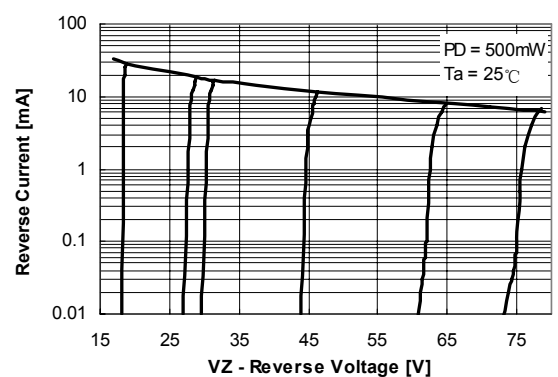


Figure 6. Reverse Current vs. Reverse Voltage