

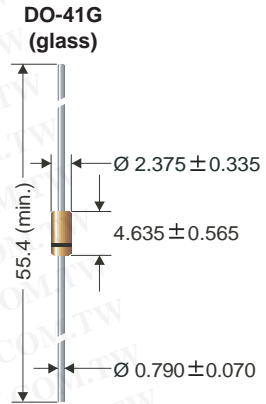
RoHS Compliant Product

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

### FEATURES

- Zener Voltage Range 3.3 to 56 Volts
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Leads Are Readily Solderable
- Solder Hot Dip Tin (Sn) Lead Finish
- Cathode Indicated By Polarity Band

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



Dimensions in mm

### ABSOLUTE MAXIMUM RATINGS (Rating 25°C ambient temperature unless otherwise specified)

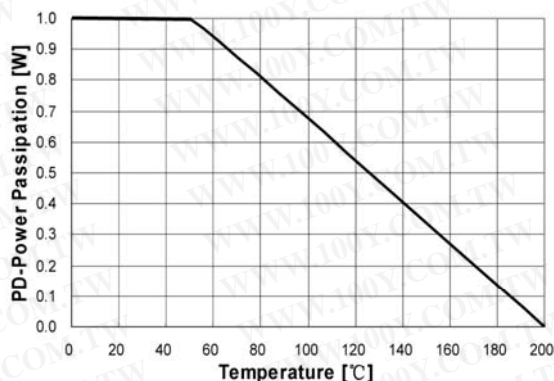
Parameter	SYMBOL	VALUES	UNITS
Forward Voltage @ $I_F = 200$ mA for all types	$V_F$	1.2	V
Total Device Power Dissipation	$P_D$	1.0	W
Thermal Resistance Junction to Lead	$R_{\theta JL}$	53.5	°C/W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100	°C/W
Max. Junction Operating & Storage Temperature	$T_{OPR(max.)}, T_J$	+200, -65~+200	°C

### ELECTRICAL CHARACTERISTICS (Rating 25°C ambient temperature unless otherwise specified)

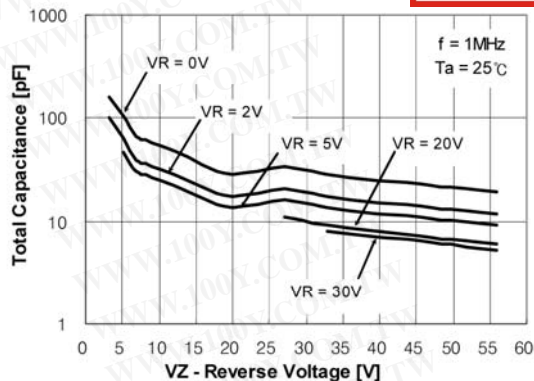
Type Number	Zener Voltage				Reverse Current		
	$V_Z$ (V)	$I_Z$ (mA)	$Z_{ZT}$ ( $\Omega$ ) @ $I_{ZT}$	$Z_{ZK}$ ( $\Omega$ ) @ $I_{ZK}$ (mA)		$I_R$ ( $\mu$ A) @ $V_R$ (V)	
	Nominal		Max	Max		Max	
1N4728AG	3.3	76.0	10	400	1.00	100	1.0
1N4729AG	3.6	69.0	10	400	1.00	100	1.0
1N4730AG	3.9	64.0	9	400	1.00	50	1.0
1N4731AG	4.3	58.0	9	400	1.00	10	1.0
1N4732AG	4.7	53.0	8	500	1.00	10	1.0
1N4733AG	5.1	49.0	7	550	1.00	10	1.0
1N4734AG	5.6	45.0	5	600	1.00	10	2.0
1N4735AG	6.2	41.0	2	700	1.00	10	3.0
1N4736AG	6.8	37.0	3.5	700	1.00	10	4.0
1N4737AG	7.5	34.0	4	700	0.50	10	5.0
1N4738AG	8.2	31.0	4.5	700	0.50	10	6.0
1N4739AG	9.1	28.0	5	700	0.50	10	7.0
1N4740AG	10.0	25.0	7	700	0.25	10	7.6
1N4741AG	11.0	23.0	8	700	0.25	5	8.4
1N4742AG	12.0	21.0	9	700	0.25	5	9.1
1N4743AG	13.0	19.0	10	700	0.25	5	9.9
1N4744AG	15.0	17.0	14	700	0.25	5	11.4
1N4745AG	16.0	15.5	16	700	0.25	5	12.2
1N4746AG	18.0	14.0	20	700	0.25	5	13.7
1N4747AG	20.0	12.5	22	750	0.25	5	15.2
1N4748AG	22.0	11.5	23	750	0.25	5	16.7
1N4749AG	24.0	10.5	25	750	0.25	5	18.2
1N4750AG	27.0	9.5	35	750	0.25	5	20.6
1N4751AG	30.0	8.5	40	1000	0.25	5	22.8
1N4752AG	33.0	7.5	45	1000	0.25	5	25.1
1N4753AG	36.0	7.0	50	1000	0.25	5	27.4
1N4754AG	39.0	6.5	60	1000	0.25	5	29.7
1N4755AG	43.0	6.0	70	1500	0.25	5	32.7
1N4756AG	47.0	5.5	80	1500	0.25	5	35.8
1N4757AG	51.0	5.0	95	1500	0.25	5	38.8
1N4758AG	56.0	4.5	110	2000	0.25	5	42.6

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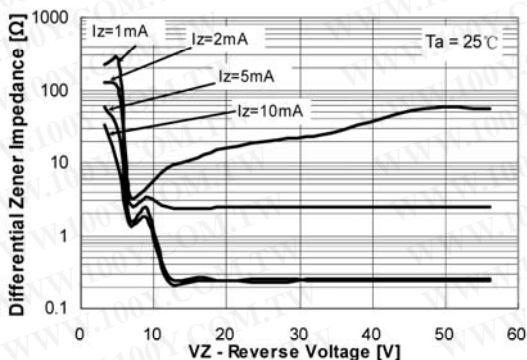
**Typical Characteristics Curve**



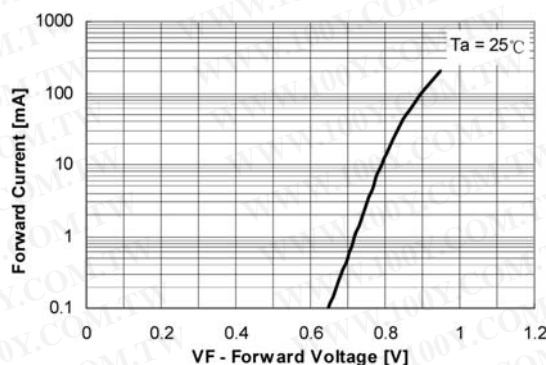
**Figure 1. Power Dissipation vs Ambient Temperature**  
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature



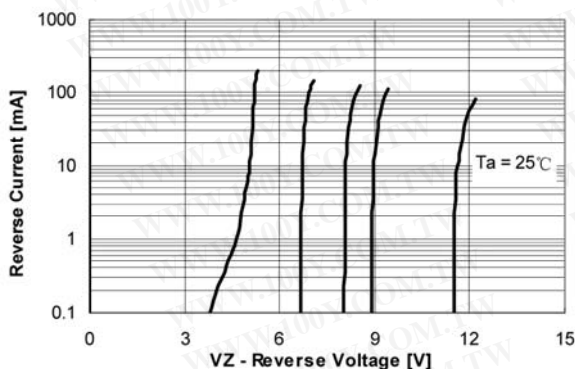
**Figure 2. Total Capacitance**



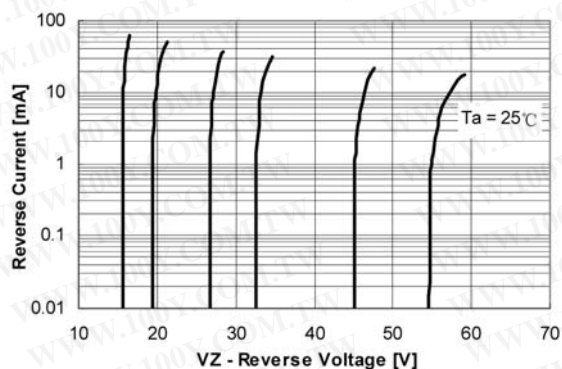
**Figure 3. Differential Impedance vs. Zener Voltage**



**Figure 4. Forward Current vs. Forward Voltage**



**Figure 5. Reverse Current vs. Reverse Voltage**



**Figure 6. Reverse Current vs. Reverse Voltage**

- Notes:
1. Tolerance and type number designation ( $V_Z$ ): The type numbers listed 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 SeCoS representative.
  3. Zener voltage ( $V_Z$ ) measurement: The zener voltage ( $V_Z$ ) is tested under pulse condition. The measured  $V_Z$  is guaranteed to be within specification with device junction in thermal equilibrium.
  4. Zener impedance ( $Z_Z$ ) derivation: The 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 ( $I_{ZT}$  or  $I_{ZK}$ ) is superimposed on  $I_{ZT}$  or  $I_{ZK}$ .