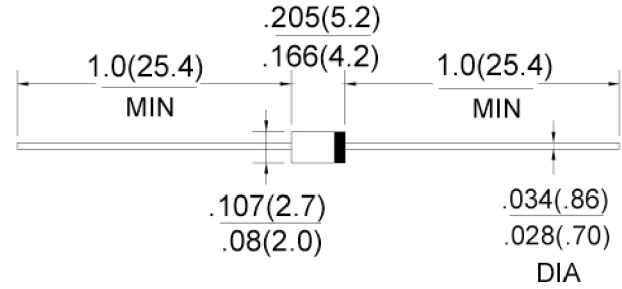


**FEATURES**

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Silicon planar power Zener diodes
- Standard Zener voltage tolerance  $\pm 5\%$

**MECHANICAL DATA**

- Glass Body
- Voltage stabilization
- Reverse voltage: 3.30 to 100 volts



DO-41 (Glass Body)

Dimensions in inches and (millimeters)

**RATINGS & ELECTRICAL CHARACTERISTICS**

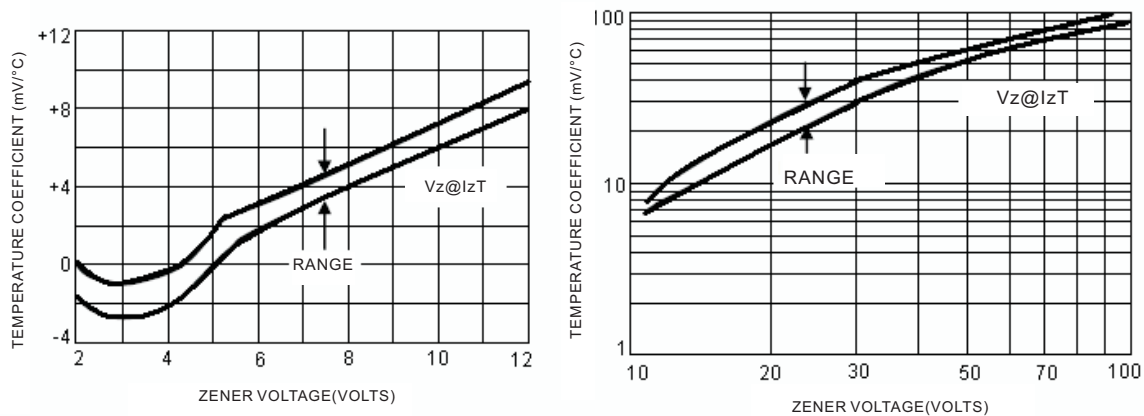
**Absolute Maximum Ratings**

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	$T_A \leq 50^\circ\text{C}$		$P_D$	1.0	W
Z-current			$I_Z$	$P_D/V_Z$	mA
Junction temperature			$T_J$	200	$^\circ\text{C}$
Storage temperature range			$T_{STG}$	-65~+175	$^\circ\text{C}$

**Electrical Characteristics,  $T_J=25^\circ\text{C}$**

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=200\text{mA}$		$V_F$			1.2	V

FIG.1-TEMPERATURE COEFFICIENTS  
(-55 $^\circ\text{C}$  to +150 $^\circ\text{C}$  temperature, 90% of the units are in the ranges indicated)



**RATING & CHARACTERISTIC CURVES**

FIG.2-EFFECT OF ZENER CURRENT ON ZENER IMPEDANCE,  $T_J=25^{\circ}\text{C}$ ,  $f=60\text{Hz}$

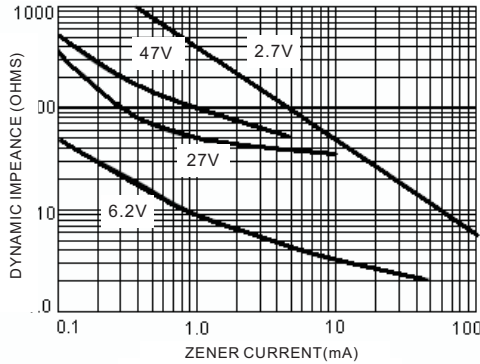
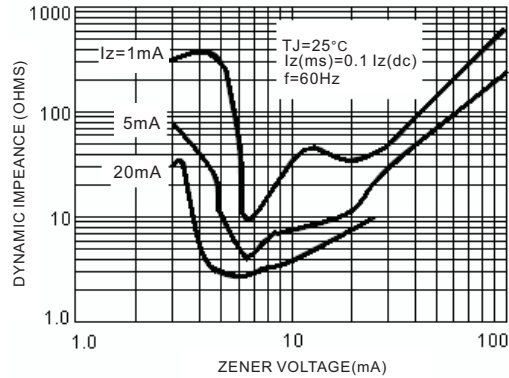


FIG.3-EFFECT OF ZENER CURRENT ON ZENER IMPEDANCE



Part Number	Nominal Zener Voltage $V_Z@I_{ZT}$	Test Current $I_{ZT}$	Maximum Zener Impedance		$I_{ZK}$	Maximum Reverse Leakage Current		Maximum Surge Current $I_{RM}$	Maximum Regulation Type $I_{ZM}$
			$Z_{ZT}@I_{ZT}$	$Z_{ZT}@I_{ZT}$		$I_R$	@ $V_R$		
1N4728A	3.3	76	10	400	1.0	100	1.0	1380	276
1N4729A	3.6	69	10	400	1.0	100	1.0	1260	252
1N4730A	3.9	64	9.0	400	1.0	50	1.0	1170	234
1N4731A	4.3	58	9.0	400	1.0	10	1.0	1085	217
1N4732A	4.7	53	8.0	500	1.0	10	1.0	965	193
1N4733A	5.1	49	7.0	550	1.0	10	1.0	890	178
1N4734A	5.6	45	5.0	600	1.0	10	2.0	810	162
1N4735A	6.2	41	2.0	700	1.0	10	3.0	730	146
1N4736A	6.8	37	3.5	700	1.0	10	4.0	660	133
1N4737A	7.5	34	4.0	700	0.5	10	5.0	605	121
1N4738A	8.2	31	4.5	700	0.5	10	6.0	550	110
1N4739A	9.1	28	5.0	700	0.5	10	7.0	500	100
1N4740A	10	25	7.0	700	0.25	10	7.6	454	91
1N4741A	11	23	8.0	700	0.25	5.0	8.4	414	83
1N4742A	12	21	9.0	700	0.25	5.0	9.1	380	76
1N4743A	13	19.1	10	700	0.25	5.0	9.9	344	69
1N4744A	15	17.1	14	700	0.25	5.0	11.4	304	61
1N4745A	16	15.5	16	700	0.25	5.0	12.2	285	57
1N4746A	18	14	20	750	0.25	5.0	13.7	250	50
1N4747A	20	12.5	22	750	0.25	5.0	15.2	225	45
1N4748A	22	11.5	23	750	0.25	5.0	16.7	205	41
1N4749A	24	10.5	25	750	0.25	5.0	18.2	190	37
1N4750A	27	9.5	35	750	0.25	5.0	20.6	170	34
1N4751A	30	8.5	40	1000	0.25	5.0	22.8	150	30
1N4752A	33	7.5	45	1000	0.25	5.0	25.1	135	27
1N4753A	36	7.0	50	1000	0.25	5.0	27.4	125	25
1N4754A	39	6.5	60	1000	0.25	5.0	29.7	115	23
1N4755A	43	6.0	70	1500	0.25	5.0	32.7	110	22
1N4756A	47	5.5	80	1500	0.25	5.0	35.8	95	16
1N4757A	51	5.0	95	1500	0.25	5.0	38.8	90	18
1N4758A	56	4.5	110	2000	0.25	5.0	42.6	80	16
1N4759A	62	4.0	125	2000	0.25	5.0	47.1	70	14
1N4760A	68	3.7	150	2000	0.25	5.0	51.7	65	13
1N4761A	75	3.3	175	2000	0.25	5.0	56	60	12
1N4762A	82	3.0	200	3000	0.25	5.0	62.2	55	11
1N4763A	91	2.8	250	3000	0.25	5.0	69.2	50	10
1N4764A	100	2.5	350	3000	0.25	5.0	76.0	45	9.0