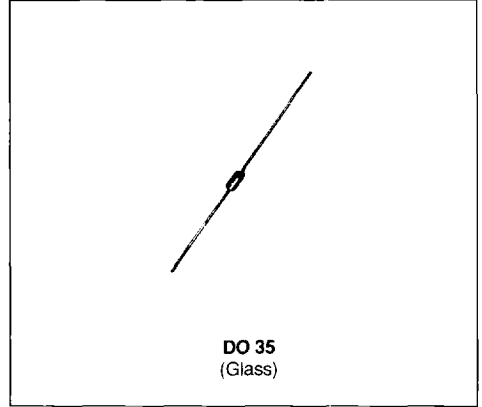


ZENER DIODES

■ VOLTAGE RANGE : 1.8V TO 27V


DESCRIPTION

Designed for 250mW applications requiring low leakage low noise. Zener impedance and Zener voltage specified for low level operation at $I_{z1} = 250\mu\text{A}$.

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter	Value	Unit
P_{tot}	Power Dissipation	$T_{\text{amb}} = 25^\circ\text{C}$ 250	mW
I_{zM}	Continuous Reverse Current	$T_{\text{amb}} = 25^\circ\text{C}$ See page 2	mA
T_{stg} T_{J}	Storage and Junction Temperature Range	- 65 to 200	$^\circ\text{C}$
T_{L}	Maximum Lead Temperature for soldering during 10s at 4mm from case	230	$^\circ\text{C}$

THERMAL RESISTANCE

Symbol	Parameter	Value	Unit
$R_{\text{th (j-a)}}$	Junction-ambient*	250	$^\circ\text{C/W}$

* On infinite heatsink with 4mm lead length

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$)

Type	V_{ZT}/I_{ZT} (1)	I_{ZT} (μA)	r_{ZT}/I_{ZT} (2) (Ω)	I_R / V_R		Noise Density @ 250 μA max ($\mu\text{V}/\sqrt{\text{Hz}}$)	I_{ZM} max (mA)
	nom (V)			(μA)	(V)		
1N4614	1.8	250	1200	7.5	1.0	1.0	120
1N4615	2.0	250	1250	5.0	1.0	1.0	110
P 1N4616	2.2	250	1300	4.0	1.0	1.0	100
1N4617	2.4	250	1400	2.0	1.0	1.0	95
1N4618	2.7	250	1500	1.0	1.0	1.0	90
1N4619	3.0	250	1600	0.8	1.0	1.0	85
P 1N4620	3.3	250	1650	7.5	1.5	1.0	80
P 1N4621	3.6	250	1700	7.5	2.0	1.0	75
P 1N4622	3.9	250	1650	5.0	2.0	1.0	70
P 1N4623	4.3	250	1600	4.0	2.0	1.0	65
P 1N4624	4.7	250	1550	10	3.0	1.0	60
P 1N4625	5.1	250	1500	10	3.0	2.0	55
1N4626	5.6	250	1400	10	4.0	4.0	50
1N4627	6.2	250	1200	10	5.0	5.0	45
1N4099	6.8	250	200	10	5.2	40	35
1N4100	7.5	250	200	10	5.7	40	31.8
1N4101	8.2	250	200	1.0	6.3	40	29.0
1N4102	8.7	250	200	1.0	6.7	40	27.4
1N4103	9.1	250	200	1.0	7.0	40	26.2
1N4104	10	250	200	1.0	7.6	40	24.8
1N4105	11	250	200	0.05	3.5	40	21.6
1N4106	12	250	200	0.05	9.2	40	20.4
1N4107	13	250	200	0.05	9.9	40	19.0
1N4108	14	250	200	0.05	10.7	40	17.5
1N4109	15	250	100	0.05	11.4	40	16.3
1N4110	16	250	100	0.05	12.2	40	15.4
1N4111	17	250	100	0.05	13.0	40	14.5
1N4112	18	250	100	0.05	13.7	40	13.2
1N4113	19	250	150	0.05	14.5	40	12.5
1N4114	20	250	150	0.01	15.2	40	11.9
1N4115	22	250	150	0.01	16.8	40	10.8
1N4116	24	250	150	0.01	18.3	40	9.9
1N4117	25	250	150	0.01	19.0	40	9.5
1N4118	27	250	150	0.01	20.5	40	8.8

(1) Tolerance on nominal V_{ZT} : $\pm 5\%$

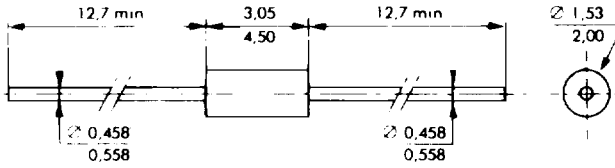
(2) Measured @ DC test current with 10% AC superimposed (50Hz).

P : Preferred voltages.

Forward voltage drop : $V_F \leq 1\text{V}$ ($T_{amb} = 25^{\circ}\text{C}$, $I_F = 0.2\text{A}$)

PACKAGE MECHANICAL DATA

DO 35 Glass



Cooling method : by convection and conduction

Marking : clear, ring at cathode end.

Weight : 0.15g