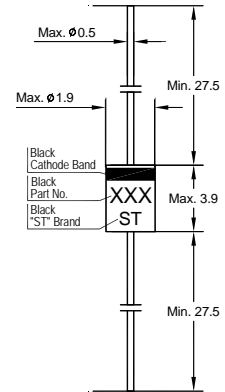


**SILICON PLANAR ZENER DIODES**

Standard Zener voltage tolerance is  $\pm 10\%$ . Add suffix "A" for  $\pm 5\%$  tolerance. Other tolerances, non-standard and higher Zener voltages are upon request.



Glass Case DO-35  
Dimensions in mm

**Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )**

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{tot}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{Stg}$	- 65 to + 175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case

**Characteristics at  $T_a = 25\text{ }^\circ\text{C}$** 

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{thA}$	0.3 <sup>1)</sup>	K/mW
Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	V

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Type	Zener Voltage Range <sup>1)</sup>		Maximum Zener Impedance	Maximum Reverse Leakage Current <sup>2)</sup> $I_R$ at $V_R = 1$ V		Maximum Regulator Current $I_{ZM}$ (mA)
	$V_{znom}$ (V)	$I_{ZT}$ (mA)		$T_a = 25$ °C	$T_a = 150$ °C	
			$I_R$ (μA)	$I_R$ (μA)		
1N746	3.3	20	28	10	30	110
1N747	3.6	20	24	10	30	100
1N748	3.9	20	23	10	30	95
1N749	4.3	20	22	2	30	85
1N750	4.7	20	19	2	30	75
1N751	5.1	20	17	1	20	70
1N752	5.6	20	11	1	20	65
1N753	6.2	20	7	0.1	20	60
1N754	6.8	20	5	0.1	20	55
1N755	7.5	20	6	0.1	20	50
1N756	8.2	20	8	0.1	20	45
1N757	9.1	20	10	0.1	20	40
1N758	10	20	17	0.1	20	35
1N759	12	20	30	0.1	20	30

<sup>1)</sup> Tested with pulses  $t_p = 20$  ms  
<sup>2)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

