

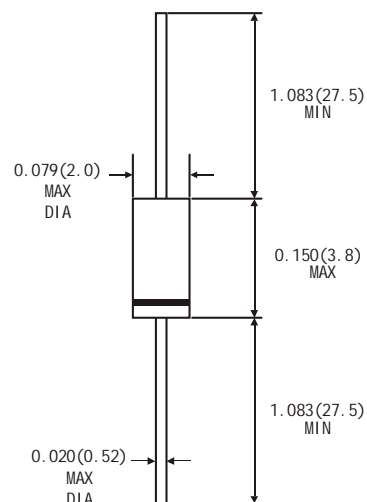
FEATURES

- Silicon planar power zener diodes
- Standards zener voltage tolerance is $\pm 10\%$. Add suffix "A" for $\pm 5\%$ tolerance, other tolerances are available upon request

MECHANICAL DATA

- *Case:* DO-35 glass case
- *Polarity:* Color band denotes cathode end
- *Weight:* Approx. 0.13 gram

DO-35



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) ($T_A = 25\text{ C}$) °

	<i>Symbols</i>	<i>Value</i>	<i>Units</i>
Zener current see table "Characteristics"			
Power dissipation at $T_A = 50\text{ °C}$	P_{tot}	500 ¹⁾	mW
Junction temperature	T_J	175	°C
Storage temperature range	T_{STG}	-65 to +175	°C

1) Valid provided that a distance of 8mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ C}$) °

	<i>Symbols</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>	<i>Units</i>
Thermal resistance junction to ambient air	$R_{\theta JA}$			300 ¹⁾	°C/W
Forward voltage at $I_F = 200\text{ mA}$	V_F			1.5	

1) Valid provided that a distance of 8mm from case are kept at ambient temperature

1N746 THRU 1N759 SILICON PLANAR ZENER DIODES

Type	Zener Voltage Range ¹⁾		Maximum zener impedance Z_{RZ} at I_{ZR}	Typical Temperature Coefficient	Maximum Reverse Leakage Current I_R ²⁾ at $V_R=1V$		Maximum Regulator Current I_{ZM}
	V_Z	I_{ZI}			$T_A=25^\circ C$	$T_A=150^\circ C$	
	V	mA			μA	μA	
1N746	3.3	20	28	-0.062	10	30	110
1N747	3.6		24	-0.055			95
1N748	3.9		23	-0.049			
1N749	4.3		22	-0.036	2		85
1N750	4.7		19	-0.018			75
1N751	5.1		17	-0.008	1		70
1N752	5.6		11	+0.006		65	
1N753	6.2		7	+0.022	0.1	20	60
1N754	6.8		5	+0.035			55
1N755	7.5		6	+0.045			50
1N756	8.2		8	+0.052			45
1N757	9.1		10	+0.056			40
1N758	10.0		17	+0.060			35
1N759	12.0		30	+0.060			30

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