

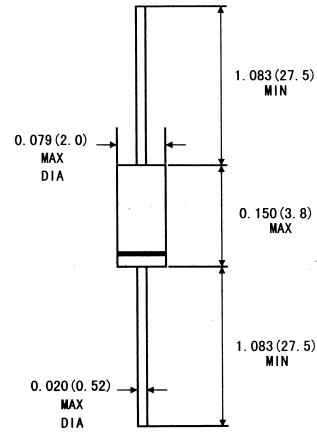
FEATURES

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

MECHANICAL DATA

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

DO-35



Dimensions in inches and (millimeters)

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

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

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

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

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

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



1N746..1N759 SILICON PLANAR ZENER DIODES

Type	Zener Voltage Range ¹⁾		Maximum zener impedance Z _{ZR} at I _{ZR}	Typical Temperature coefficient %/°C	Maximum Reverse Leakage Current I _R ²⁾ at V _R =1V		Maximum Regulator Current I _{ZM}
	V _Z	I _{ZT}			T _A =25°C	T _A =150°C	
	V	mA	Ω	%/°C	μA	μA	mA
1N746	3.3	20	28	-0.062	10	30	110
1N747	3.6		24	-0.055			
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
1N752	5.6		11	+0.006	0.1	65	
1N753	6.2		7	+0.022		60	
1N754	6.8		5	+0.035		20	55
1N755	7.5		6	+0.045			50
1N756	8.2		8	+0.052			45
1N757	9.1		10	+0.056		35	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 are kept at ambient temperature at a distance of 8mm from case.