

**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



**ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25°C )**

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=50°C	P <sub>tot</sub>	500 <sup>1)</sup>	mW
Junction temperature	T <sub>J</sub>	175	°C
Storage temperature range	T <sub>STG</sub>	-65 to + 175	°C

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

**ELECTRICAL CHARACTERISTICS(TA=25°C )**

	Symbols	Min.	Typ.	Max.	Units
Thermal resistance junction to ambient	R <sub>θJA</sub>			300 <sup>1)</sup>	°C/W
Forward voltage at I <sub>F</sub> =200mA	V <sub>F</sub>			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 <sup>1)</sup>		Maximum zener impedance Z <sub>ZR</sub> at I <sub>ZR</sub>	Typical Temperature coefficient %/°C	Maximum Reverse Leakage Current (I <sub>R</sub> <sup>2)</sup> at V <sub>R</sub> =1V		Maximum Regulator Current I <sub>ZM</sub>
	V <sub>Z</sub>	I <sub>ZT</sub>			T <sub>A</sub> =25°C	T <sub>A</sub> =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			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		0.1	65
1N753	6.2		7	+0.022	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<sub>p</sub>=20ms  
2) Valid provided that are kept at ambient temperature at a distance of 8mm from case.