SEMICONDUCTOR

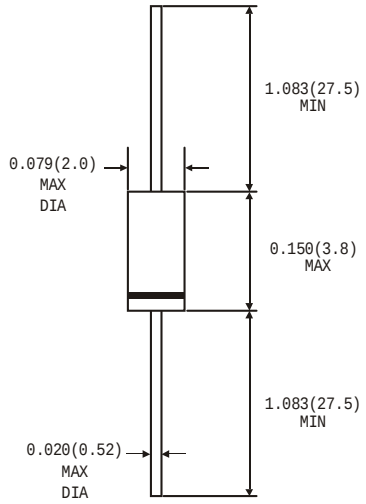
1N746 THRU 1N759

0.5W SILICON PLANAR ZENER DIODES

FEATURES

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

DO-35



Dimensions in inches and (millimeters)

MECHANICAL DATA

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

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) (T_A=25 C)°

	Symbols	*Value*	*Units*
Zener current see table "Characteristics"			
Power dissipation at T_A=50℃	P_{tot}	500[1)]	mW
Junction temperature	T_J	175	℃
Storage temperature range	T_{STG}	-65 to+175	℃
1) Valid provided that a distance of 8mm from case are kept at ambient temperature			

ELECTRICAL CHARACTERISTICS (T_A=25 C°)

	Symbols	*Min*	*Typ*	*Max*	*Units*
Thermal resistance junction to ambient air	$R_{\theta JA}$			300[1)]	℃/W
Forward voltage at I_F=200mA	V_F			1.5	
1) Valid provided that a distance of 8mm from case are kept at ambient temperature					

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Type	Zener Voltage Range1)		Maximum zener impedence Z_{ZR} 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_{ZT}			T_A=25℃	T_A=150℃	
	V	mA	Ω	%/℃	μA	μA	mA
1N746	3.3	20	28	-0.062	10	30	110
1N747	3.6		24	-0.055			100
1N748	3.9		23	-0.049			95
1N749	4.3		22	-0.036	2		85
1N750	4.7		19	-0.018			75
1N751	5.1		17	-0.008	1	20	70
1N752	5.6		11	+0.006			65
1N753	6.2		7	+0.022	0.1		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 tp=20ms
2) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.