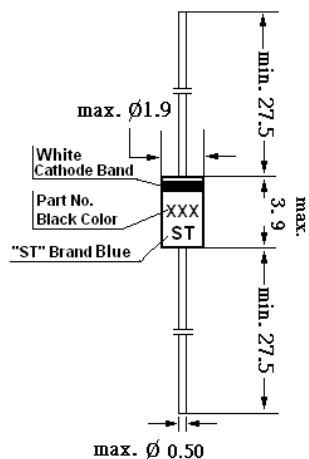


# 1N746...1N759

## 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 JEDEC DO-35

Dimensions in mm

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

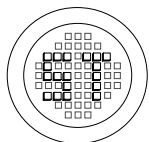
	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation	$P_{\text{tot}}$	400 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-65 to +175	$^\circ\text{C}$

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

### Characteristics at $T_{\text{amb}} = 25^\circ\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	-	-	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 at a distance of 8mm from case are kept at ambient temperature.



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**РАДИОТЕХ**

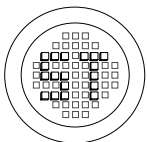
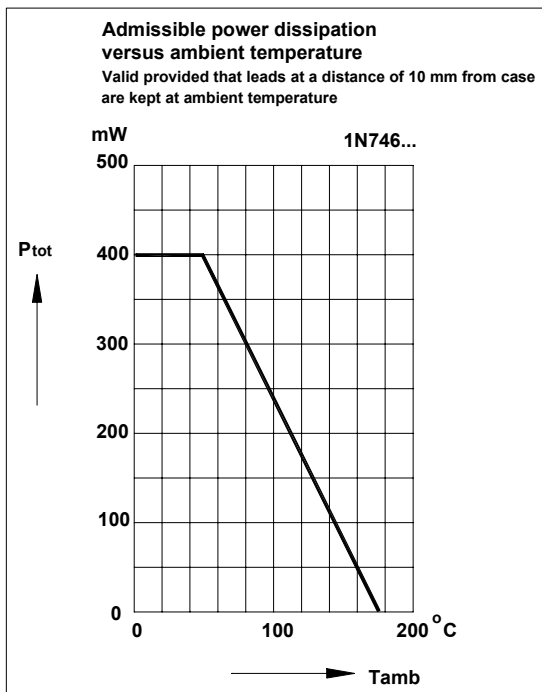
Тел.: (495) 795-0805  
 Факс: (495) 234-1603  
 Эл. почта: info@rct.ru  
 Веб: www.rct.ru

# 1N746...1N759

TYPE	Zener Voltage Range <sup>1)</sup>		Maximum Zener Impedance  Z <sub>ZT</sub> at I <sub>ZT</sub> Ω	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> mA
	V <sub>znom</sub>	I <sub>ZT</sub>			Ta = 25°C	Ta = 150°C	
	V	mA			μA	μA	
1N746	3.3	20	28	-0.062	10	30	110
1N747	3.6	20	24	-0.055	10	30	100
1N748	3.9	20	23	-0.049	10	30	95
1N749	4.3	20	22	-0.036	2	30	85
1N750	4.7	20	19	-0.018	2	30	75
1N751	5.1	20	17	-0.008	1	20	70
1N752	5.6	20	11	+0.006	1	20	65
1N753	6.2	20	7	+0.022	0.1	20	60
1N754	6.8	20	5	+0.035	0.1	20	55
1N755	7.5	20	6	+0.045	0.1	20	50
1N756	8.2	20	8	+0.052	0.1	20	45
1N757	9.1	20	10	+0.056	0.1	20	40
1N758	10	20	17	+0.060	0.1	20	35
1N759	12	20	30	+0.060	0.1	20	30

1) Tested with pulses tp = 20ms

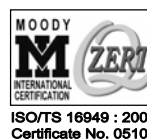
2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



## SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

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Dated : 22/07/2005