

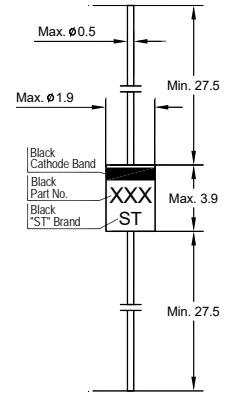
# 1N7xxxPF

## 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.

### Features

- Lead Free



Glass Case DO-35  
Dimensions in mm

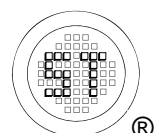
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{tot}$	500	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 175	$^\circ\text{C}$

### Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient <sup>1)</sup>	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$

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



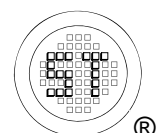
# 1N7xxxPF

## Characteristics at $T_a = 25^\circ\text{C}$ ( $V_F = 1.2\text{ V Max. at } I_F = 200\text{ mA}$ )

Type	Zener Voltage Range <sup>1)</sup>			Maximum Zener Impedance $Z_{ZT} (\Omega)$ at $I_{ZT}$	Maximum Reverse Leakage Current <sup>2)</sup> $I_R$ at $V_R = 1\text{ V}$		Maximum Regulator Current $I_{ZM} (\text{mA})$	
	$V_{znom}$ (V)	$V_{ZT}$			$T_a = 25^\circ\text{C}$	$T_a = 150^\circ\text{C}$		
		Min. (V)	Max. (V)		$I_R (\mu\text{A})$	$I_R (\mu\text{A})$		
1N746PF	3.3	2.97	3.63	20	28	10	30	110
1N746APF	3.3	3.14	3.47	20	28	10	30	110
1N747PF	3.6	3.24	3.96	20	24	10	30	100
1N747APF	3.6	3.42	3.78	20	24	10	30	100
1N748PF	3.9	3.51	4.29	20	23	10	30	95
1N748APF	3.9	3.71	4.10	20	23	10	30	95
1N749PF	4.3	3.87	4.73	20	22	2	30	85
1N749APF	4.3	4.09	4.52	20	22	2	30	85
1N750PF	4.7	4.23	5.17	20	19	2	30	75
1N750APF	4.7	4.47	4.94	20	19	2	30	75
1N751PF	5.1	4.59	5.61	20	17	1	20	70
1N751APF	5.1	4.85	5.36	20	17	1	20	70
1N752PF	5.6	5.04	6.16	20	11	1	20	65
1N752APF	5.6	5.32	5.88	20	11	1	20	65
1N753PF	6.2	5.58	6.82	20	7	0.1	20	60
1N753APF	6.2	5.89	6.51	20	7	0.1	20	60
1N754PF	6.8	6.12	7.48	20	5	0.1	20	55
1N754APF	6.8	6.46	7.14	20	5	0.1	20	55
1N755PF	7.5	6.75	8.25	20	6	0.1	20	50
1N755APF	7.5	7.13	7.88	20	6	0.1	20	50
1N756PF	8.2	7.38	9.02	20	8	0.1	20	45
1N756APF	8.2	7.79	8.61	20	8	0.1	20	45
1N757PF	9.1	8.19	10.01	20	10	0.1	20	40
1N757APF	9.1	8.65	9.56	20	10	0.1	20	40
1N758PF	10	9.00	11.00	20	17	0.1	20	35
1N758APF	10	9.50	10.50	20	17	0.1	20	35
1N759PF	12	10.80	13.20	20	30	0.1	20	30
1N759APF	12	11.40	12.60	20	30	0.1	20	30

<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$

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



# 1N7xxxPF

## Electrical Characteristics Curves

