ZENER DIODES

SYMMETRICAL ZENER DIODE

Type	V_{ZT} / I_{ZT} (V) min.	max.	I_{ZT} (mA)	r_{ZT} / I_{ZT} (Ω)	$V_{(CL)}$ @ I_{pp} 1 ms expo. (V)	(A)	$V_{(CL)}$ @ I_{pp} 8-20 µs expo. (V)	(A)	I_R / V_R (µA)	(V)	C typ V_R = 0 F = 1 MHz (pF)	Package
BZV 37	6.2	6.8	5	20	15	2	25	7	1 10	2 4	90	DO 35

TEMPERATURE COMPENSATED ZENER DIODES

Type	V_{ZT}* typ (V)	r_{ZT}* max (Ω)	I_{ZT} (mA)	Test temperatures (°C)					ΔV_Z max (mV)	αV_Z max (10^{-6}/°C)	Package
V_{ZT} = 6.2 V											
1N 821 • 1N 821 A 1N 823 • 1N 823 A 1N 825 • 1N 825 A 1N 827 • 1N 827 A 1N 829 1N 829 A	6.2	15 without suffix 10 with suffix A	7.5	−55	0	25	75	100	96 48 19 9 5	100 50 20 10 5	DO 35
V_{ZT} = 6.4 V											
1N 4565 1N 4566 1N 4567 1N 4568 1N 4569	6.4	200	0.5		0	25	75		48 24 10 5 2	100 50 20 10 5	DO 35
1N 4575 1N 4576 1N 4577 1N 4578 1N 4579	6.4	50	2		0	25	75		48 24 10 5 2	100 50 20 10 5	
• 1N 4565 A • 1N 4566 A • 1N 4567 A • 1N 4568 A • 1N 4569 A	6.4	200	0.5	−55	0	25	75	100	99 50 20 10 5	100 50 20 10 5	
1N 4575 A 1N 4576 A 1N 4577 A 1N 4578 A 1N 4579 A	6.4	200	0.5	−55	0	25	75	100	99 50 20 10 5	100 50 20 10 5	
V_{ZT} = 8.4 V											
1N 3154 1N 3155 1N 3156 1N 3157	8.4	15	10	−55	0	25	75	100	130 65 26 13	100 50 20 10	DO 35
V_{ZT} = 6.2 V											
1N 935 A 1N 936 A 1N 937 A 1N 938 A 1N 939 A	9	20	7.5	−55	0	25	75	100	139 69 27 13 7	100 50 20 10 5	DO 35

* T_{amb} = 25°C. Tolerance on nominal V_{ZT} value : ± 5%.
• ESA qualified product.

REFERENCE DIODES

Type	I_F = 5 mA V_F (V) min	max	r (Ω) max	Case
PLE 0.7 PLE 1.5	0.65 1.35	0.75 1.55	10 20	F 126