

TYPE	MATERIAL	REPLACEMENT	PAGE NUMBER	IDENTIFICATION	RECTIFIERS					ZENER DIODES			
					V <sub>R</sub> (volts)	V <sub>F</sub> (volts)	I <sub>O</sub> (Amps)	I <sub>R</sub> (mA)	I <sub>surge</sub> (Amps)	V <sub>Z</sub> (min)	V <sub>Z</sub> (nom) * V <sub>Z</sub> (max)	Tol V <sub>Z</sub> %	P <sub>D</sub>
					SIGNAL DIODES					REFERENCE DIODES			
					PRV (volts)	V <sub>F</sub> @ I <sub>F</sub> (volts)	I <sub>R</sub>	t <sub>r</sub> (μs)	TC %/°C	V <sub>Z</sub>	T (min) °C	T (max) °C	
1N2668	S			R	4800	15.6	1.5	0.8	15				
1N2669	S			R	100	1.3	3.6	0.3	15				
1N2673	S			R	200	1.3	3.6	0.3	15				
1N2677	S			R	300	1.3	3.6	0.3	15				
1N2681	S			R	400	1.3	3.6	0.3	15				
1N2685	S			R	600	2.6	3.6	0.3	15				
1N2687	S			R	800	2.6	3.6	0.3	15				
1N2689	S			R	900	3.9	3.6	0.8	15				
1N2690	S			R	1200	3.9	3.6	0.8	15				
1N2691	S			R	1600	5.2	3.6	0.8	15				
1N2692	S			R	100	1.3	7.2	0.3	15				
1N2694	S			R	200	1.3	7.2	0.3	15				
1N2696	S			R	300	1.3	7.2	0.3	15				
1N2698	S			R	400	1.3	7.2	0.3	15				
1N2700	S			R	600	2.6	7.2	0.3	15				
1N2701	S			R	800	2.6	7.2	0.3	15				
1N2702	S			R	100	1.3	3.0	0.2	15				
1N2705	S			R	200	1.3	3.0	0.2	15				
1N2708	S			R	300	1.3	3.0	0.2	15				
1N2711	S			R	400	1.3	3.0	0.2	15				
1N2714	S			R	600	2.6	3.0	0.2	15				
1N2717	S			R	800	2.6	3.0	0.2	15				
1N2720	S			R	1200	3.9	3.0	0.8	15				
1N2722	S			R	1600	5.2	3.0	0.8	15				
1N2723	S			R	2000	6.5	3.0	0.8	15				
1N2724	S			R	2400	7.8	3.0	0.8	15				
1N2725	S	1N4720	3-28	R	100	1.3	3.0	0.3	15				
1N2728	S	1N4721	3-28	R	200	1.3	3.0	0.3	15				
1N2731	S	MR1033A	3-28	R	300	1.3	3.0	0.3	15				
1N2734	S	1N4722	3-28	R	400	1.3	3.0	0.3	15				
1N2737	S	1N4723	3-28	R	600	2.6	3.0	0.3	15				
1N2738	S	1N4724	3-28	R	800	2.6	3.0	0.3	15				
1N2739	S			R	1200	3.9	3.0	0.8	15				
1N2740	S			R	100	1.3	3.6	0.3	15				
1N2742	S			R	200	1.3	3.6	0.3	15				
1N2744	S			R	300	1.3	3.6	0.3	15				
1N2746	S			R	400	1.3	3.6	0.3	15				
1N2748	S			R	600	2.6	3.6	0.3	15				
1N2749	S			R	800	2.6	3.6	0.3	15				
1N2750	S			R	100	1.3	3.0	0.3	15				
1N2753	S			R	200	1.3	3.0	0.3	15				
1N2756	S			R	300	1.3	3.0	0.3	15				
1N2759	S			R	400	1.3	3.0	0.3	15				
1N2762	S			R	600	2.6	3.0	0.3	15				
1N2763	S			R	800	2.6	3.0	0.3	15				
1N2764	S			R	1200	3.9	3.0	0.8	15				
1N2765	S	1N823A	2-45	RD						0.005	6.8	-55	100
1N2765A	S	1N825A	2-45	RD						0.0025	6.8	-55	100
1N2766	S	1N1736A	2-45	RD						0.005	13.6	-55	100
1N2766A	S	1N1736A	2-45	RD						0.0025	13.6	-55	100
1N2767	S			RD						0.005	20.4	-55	100
1N2767A	S			RD						0.0025	20.4	-55	100
1N2768	S			RD						0.005	27.2	-55	100
1N2768A	S			RD						0.0025	27.2	-55	100
1N2769	S			RD						0.005	34.0	-55	100
1N2769A	S			RD						0.0025	34.0	-55	100
1N2770	S			RD						0.005	40.8	-55	100
1N2770A	S			RD						0.0025	40.8	-55	100
1N2771	S			RD									
1N2772	S			R	700	1.8	0.5		15				
1N2773	S			R	800	1.8	0.5		15				
1N2774	S			R	900	1.8	0.5		15				
1N2775	S			R	1000	1.8	0.5		15				
1N2776	S			R	1100	1.8	0.5		15				
1N2777	S			R	1200	1.8	0.5		15				
1N2778	S			R	1300	1.8	0.5		15				
1N2779	S			R	1400	1.8	0.5		15				
1N2780	S			R	1500	1.8	0.5		15				
1N2781	S			R	1600	1.8	0.5		15				
1N2782	S			SP									
1N2783	S	1N3000A	2-19	ZD	5.0			2.0*			62*	10	6.0W
1N2784	S			R	200	1.5	8.0	5.0	200				
1N2785	S			R	400	1.5	8.0	5.0	200				
1N2786	S			R	200	1.2	10	10.0	180				
1N2787	S			R	400	1.2	10	10.0	180				
1N2788	S			R	200	1.3	12.5	5.0	340				
1N2789	S			R	400	1.3	12.5	5.0	340				
1N2790	S	1N3156	2-45	RD						0.002	8.5	-55	100
1N2791	S			HC		1.3	50M	0.05*	4.0				
1N2792	G												
1N2793	S	1N1183	3-11	R	50	1.25	5.0	5.0	75				

R—Rectifier, RD—Reference Diode, ZD—Zener Diode, GP—General Purpose, HC—High Conductance (≧ 20 mA @ ≤ 1 V), HS—High Speed Switch (Max t<sub>r</sub> < 0.3 μs), CS—High Conductance, High Speed Switch, MS—Medium Speed Switch, PA—Parametric Amplifier, SP—Special Purpose.

— Reference Diodes —

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_{ZT}$ Ohms	Power Dissipation P mW	Case
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**TABLE 22**

$V_Z = 9.4 V \pm 0.4 V$  ( $\pm 0.2 V$  Suffix "A")  
 at  $I_{ZT} = 10 mA$   
 Test Temperatures: ③(-55, 0, 25, 75, 125, 185)  
 ④(-55, 0, 25, 75, 125)  
 ⑤(0, 25, 70)

1N2163, A	0.033⑤	0.005	15	750	52
1N2164, A	0.086④	0.005	15	750	52
1N2165, A	0.115③	0.005	15	750	52
1N2166, A	0.007⑤	0.001	15	750	52
1N2167, A	0.017④	0.001	15	750	52
1N2168, A	0.023③	0.001	15	750	52
1N2169, A	0.004④	0.0005	15	750	52
1N2170, A	0.009⑤	0.0005	15	750	52
1N2171, A	0.012③	0.0005	15	750	52

**TABLE 23**

$V_Z = 11.7 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: 0, 25, 75°C

1N941	0.088	0.01	30	†250②	51
1N942	0.044	0.005	30	†250②	51
1N943	0.018	0.002	30	†250②	51
1N944	0.009	0.001	30	†250②	51
1N945	0.004	0.0005	30	†250②	51
1N3580	0.088	0.01	25	750②	52
1N3581	0.044	0.005	25	750②	52
1N3582	0.018	0.002	25	750②	52

**TABLE 24**

$V_Z = 11.7 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, 0, +25, +75, +100°C

1N941A	0.181	0.01	30	†250②	51
1N942A	0.090	0.005	30	†250②	51
1N943A	0.036	0.002	30	†250②	51
1N944A	0.018	0.001	30	†250②	51
1N945A	0.009	0.0005	30	†250②	51
1N3580A	0.181	0.01	25	750②	52
1N3581A	0.090	0.005	25	750②	52
1N3582A	0.036	0.002	25	750②	52

**TABLE 25**

$V_Z = 11.7 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, 0, +25, +75, +100, +150°C

1N941B	0.239	0.01	30	†250②	51
1N942B	0.120	0.005	30	†250②	51
1N943B	0.047	0.002	30	†250②	51
1N944B	0.024	0.001	30	†250②	51
1N945B	0.012	0.0005	30	†250②	51
1N3580B	0.239	0.01	25	750②	52
1N3581B	0.120	0.005	25	750②	52
1N3582B	0.048	0.002	25	750②	52

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_{ZT}$ Ohms	Power Dissipation P mW	Case
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**TABLE 26**

$V_Z = 12.4 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N1736	0.100	0.01	40	400①	41-3
1N1736A	0.050	0.005	40	400①	41-3

**TABLE 27**

$V_Z = 18.6 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N1737	0.150	0.01	60	600①	41-5
1N1737A	0.075	0.005	60	600①	41-5

**TABLE 28**

$V_Z = 20.4 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N2767	0.158	0.005	60	600①	41-7
1N2767A	0.079	0.0025	60	600①	41-7

**TABLE 29**

$V_Z = 24.8 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N1738	0.200	0.01	80	800①	41-5
1N1738A	0.100	0.005	80	800①	41-5

**TABLE 30**

$V_Z = 27.2 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N2768	0.210	0.005	80	800①	41-7
1N2768A	0.105	0.0025	80	800①	41-7

**TABLE 31**

$V_Z = 31.0 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N1739	0.250	0.01	100	1000①	41-4
1N1739A	0.125	0.005	100	1000①	41-4

**TABLE 32**

$V_Z = 34.0 V \pm 5%$  at  $I_{ZT} = 7.5 mA$   
 Test Temperatures: -55, +25, +100°C

1N2769	0.265	0.005	100	1000①	41-1
1N2769A	0.132	0.0025	100	1000①	41-1

①  $T_J = -65$  to  $+150^\circ C$

②  $T_J = -65$  to  $+175^\circ C$

† The indicated power rating is recommended for conservative design limits in critical high reliability applications. Registered power ratings vary from 250 mW to 500 mW. All devices indicated are supplied in the 400 mW glass package.