

**1N2583-1N2667**

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>charge</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	
1N2583	S			R	700	1.2	12	1.0	250				
1N2584	S			R	800	1.2	12	1.0	250				
1N2585	S			R	900	1.2	12	1.0	250				
1N2586	S			R	1000	1.2	12	1.0	250				
1N2587	S			R	50	1.0	12	0.2	250				
1N2588	S			R	100	1.0	12	0.2	250				
1N2589	S			R	200	1.0	12	0.2	250				
1N2590	S			R	300	1.0	12	0.2	250				
1N2591	S			R	400	1.0	12	0.2	250				
1N2592	S			R	500	1.0	12	0.2	250				
1N2593	S			R	600	1.0	12	0.2	250				
1N2594	S			R	700	1.0	12	0.2	250				
1N2595	S			R	800	1.0	12	0.2	250				
1N2596	S			R	900	1.0	12	0.2	250				
1N2597	S			R	1000	1.0	12	0.2	250				
1N2598	S			R	50	1.5	12	2.0	250				
1N2599	S			R	100	1.5	12	2.0	250				
1N2600	S			R	200	1.5	12	2.0	250				
1N2601	S			R	300	1.5	12	2.0	250				
1N2602	S			R	400	1.5	12	2.0	250				
1N2603	S			R	500	1.5	12	2.0	250				
1N2604	S			R	600	1.5	12	2.0	250				
1N2605	S			R	700	1.5	12	2.0	250				
1N2606	S			R	800	1.5	12	2.0	250				
1N2607	S			R	900	1.5	12	2.0	250				
1N2608	S			R	1000	1.5	12	2.0	250				
1N2609	S	1N4001	3-24	R	50	1.1	0.75	0.3	30				
1N2610	S	1N4002	3-24	R	100	1.1	0.75	0.3	30				
1N2611	S	1N4003	3-24	R	200	1.1	0.75	0.3	30				
1N2612	S	1N4004	3-24	R	300	1.1	0.75	0.3	30				
1N2613	S	1N4004	3-24	R	400	1.1	0.75	0.3	30				
1N2614	S	1N4005	3-24	R	500	1.1	0.75	0.3	30				
1N2615	S	1N4005	3-24	R	600	1.1	0.75	0.3	30				
1N2616	S	1N4006	3-24	R	800	1.1	0.75	0.3	30				
1N2617	S	1N4007	3-24	R	1000	1.1	0.75	0.3	30				
1N2618	S			R	1200	1.1	0.75	0.3	30				
1N2619	S			R	1500	1.1	0.75	0.3	30				
1N2620	S		2-45	RD						0.01	9.7	0	75
1N2620A	S		2-45	RD						0.01	9.7	-55	100
1N2620B	S		2-45	RD						0.01	9.7	-55	150
1N2621	S		2-45	RD						0.005	9.7	0	75
1N2621A	S		2-45	RD						0.005	9.7	-55	100
1N2621B	S		2-45	RD						0.005	9.7	-55	150
1N2622	S		2-45	RD						0.002	9.7	0	75
1N2622A	S		2-45	RD						0.002	9.7	-55	100
1N2622B	S		2-45	RD						0.002	9.7	-55	150
1N2623	S		2-45	RD						0.001	9.7	0	75
1N2623A	S		2-45	RD						0.001	9.7	-55	100
1N2623B	S		2-45	RD						0.001	9.7	-55	150
1N2624	S		2-45	RD						0.0005	9.7	0	75
1N2624A	S		2-45	RD						0.0005	9.7	-55	100
1N2624B	S		2-45	RD						0.0005	9.7	-55	150
1N2625	S			RD						0.0002	9.4	0	75
1N2625A	S			RD						0.0002	9.4	-55	100
1N2625B	S			RD						0.0002	9.4	-55	150
1N2626	S			RD						0.0001	9.4	0	75
1N2626A	S			RD						0.0001	9.4	-55	100
1N2626B	S			RD						0.0001	9.4	-55	150
1N2627													
thru		Varactor Diodes, see table on page 1-86											
1N2628				PA	5.0								
1N2629	G			R	1500	2.25	0.085	0.5	5.0				
1N2630	S			R	1600	3.0	0.6	0.5	5.0				
1N2631	S			R	2800	6.0	0.2	0.5	5.0				
1N2632	S			R	1600	3.0	0.6	0.5	5.0				
1N2633	S			R	1600	3.0	0.6	0.5	5.0				
1N2634	S			R	1600	3.0	0.6	0.5	5.0				
1N2635	S			R	1500	2.25	0.085	0.5	5.0				
1N2636	S			R	1500	2.25	0.085	0.5	5.0				
1N2637	S			R		28.0	0.25	0.5	5.0				
1N2638	S			R	100	1.3	1.5	0.3	15				
1N2641	S			R	200	1.3	1.5	0.3	15				
1N2644	S			R	300	1.3	1.5	0.3	15				
1N2647	S			R	400	1.3	1.5	0.3	15				
1N2650	S			R	600	2.6	1.5	0.3	15				
1N2653	S			R	800	2.6	1.5	0.3	15				
1N2656	S			R	1200	3.9	1.5	0.8	15				
1N2659	S			R	1600	5.2	1.5	0.8	15				
1N2662	S			R	2000	6.5	1.5	0.8	15				
1N2664	S			R	2400	7.8	1.5	0.8	15				
1N2666	S			R	3200	10.4	1.5	0.8	15				
1N2667	S			R	4000	13	1.5	0.8	15				

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 $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 11</b> $V_Z = 8.5 \text{ V} \pm 5\%$ at $I_{ZT} = 1.0 \text{ mA}$ Test Temperatures: -55, 0, +25, +75, +100°C					
1N4780A	0.132	0.01	100	250 ②	51
1N4781A	0.066	0.005	100	250 ②	51
1N4782A	0.026	0.002	100	250 ②	51
1N4783A	0.013	0.001	100	250 ②	51
1N4784A	0.007	0.0005	100	250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 12</b> $V_Z = 9.0 \text{ V} \pm 5\%$ at $I_{ZT} = 7.5 \text{ mA}$ Test Temperatures: 0, 25, 75°C					
1N935	0.067	0.01	20	+250 ②	51
1N936	0.033	0.005	20	+250 ②	51
1N937	0.013	0.002	20	+250 ②	51
1N938	0.006	0.001	20	+250 ②	51
1N939	0.003	0.0005	20	+250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 13</b> $V_Z = 9.0 \text{ V} \pm 5\%$ at $I_{ZT} = 7.5 \text{ mA}$ Test Temperatures: -55, 0, +25, +75, +100°C					
1N935A	0.139	0.01	20	+250 ②	51
1N936A	0.069	0.005	20	+250 ②	51
1N937A	0.027	0.002	20	+250 ②	51
1N938A	0.013	0.001	20	+250 ②	51
1N939A	0.007	0.0005	20	+250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 14</b> $V_Z = 9.0 \text{ V} \pm 5\%$ at $I_{ZT} = 7.5 \text{ mA}$ Test Temperatures: -55, 0, +25, +75, +100, +150°C					
1N935B	0.184	0.01	20	+250 ②	51
1N936B	0.092	0.005	20	+250 ②	51
1N937B	0.037	0.002	20	+250 ②	51
1N938B	0.018	0.001	20	+250 ②	51
1N939B	0.009	0.0005	20	+250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 15</b> $V_Z = 9.1 \text{ V} \pm 5\%$ at $I_{ZT} = 0.5 \text{ mA}$ Test Temperatures: 0, 25, 75°C					
1N4765	0.068	0.01	350	250 ②	51
1N4766	0.034	0.005	350	250 ②	51
1N4767	0.014	0.002	350	250 ②	51
1N4768	0.007	0.001	350	250 ②	51
1N4769	0.003	0.0005	350	250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 16</b> $V_Z = 9.1 \text{ V} \pm 5\%$ at $I_{ZT} = 0.5 \text{ mA}$ Test Temperatures: -55, 0, +25, +75, +100°C					
1N4765A	0.141	0.01	350	250 ②	51
1N4766A	0.070	0.005	350	250 ②	51
1N4767A	0.028	0.002	350	250 ②	51
1N4768A	0.014	0.001	350	250 ②	51
1N4769A	0.007	0.0005	350	250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 17</b> $V_Z = 9.1 \text{ V} \pm 5\%$ at $I_{ZT} = 1.0 \text{ mA}$ Test Temperatures: 0, 25, 75°C					
1N4770	0.068	0.01	200	250 ②	51
1N4771	0.034	0.005	200	250 ②	51
1N4772	0.014	0.002	200	250 ②	51
1N4773	0.007	0.001	200	250 ②	51
1N4774	0.003	0.0005	200	250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 18</b> $V_Z = 9.1 \text{ V} \pm 5\%$ at $I_{ZT} = 1.0 \text{ mA}$ Test Temperatures: -55, 0, +25, +75, +100°C					
1N4770A	0.141	0.01	200	250 ②	51
1N4771A	0.070	0.005	200	250 ②	51
1N4772A	0.028	0.002	200	250 ②	51
1N4773A	0.014	0.001	200	250 ②	51
1N4774A	0.007	0.0005	200	250 ②	51

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 19</b> $V_Z = 9.3 \text{ V} \pm 5\%$ at $I_{ZT} = 10 \text{ mA}$ Test Temperatures: 0, 25, 75°C					
1N2620	0.070	0.01	15	750 ②	52
1N2621	0.035	0.005	15	750 ②	52
1N2622	0.014	0.002	15	750 ②	52
1N2623	0.007	0.001	15	750 ②	52
1N2624	0.003	0.0005	15	750 ②	52

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 20</b> $V_Z = 9.3 \text{ V} \pm 5\%$ at $I_{ZT} = 10 \text{ mA}$ Test Temperatures: -55, 0, +25, +75, +100°C					
1N2620A	0.144	0.01	15	750 ②	52
1N2621A	0.072	0.005	15	750 ②	52
1N2622A	0.029	0.002	15	750 ②	52
1N2623A	0.014	0.001	15	750 ②	52
1N2624A	0.007	0.0005	15	750 ②	52

Type Number	Max Voltage Change $\Delta V$ Volts	Temperature Coefficient %/°C For Reference	Max Dynamic Impedance $Z_T$ Ohms	Power Dissipation P mW	Case
<b>TABLE 21</b> $V_Z = 9.3 \text{ V} \pm 5\%$ at $I_{ZT} = 10 \text{ mA}$ Test Temperatures: -55, 0, +75, +100, +150°C					
1N2620B	0.191	0.01	15	750 ②	52
1N2621B	0.095	0.005	15	750 ②	52
1N2622B	0.038	0.002	15	750 ②	52
1N2623B	0.019	0.001	15	750 ②	52
1N2624B	0.010	0.0005	15	750 ②	52

①  $T_J = -65 \text{ to } +150^\circ\text{C}$

②  $T_J = -65 \text{ to } +175^\circ\text{C}$

† 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.