

TYPE	MATERIAL	REPLACEMENT	PAGE NUMBER	IDENTIFICATION	RECTIFIERS					ZENER DIODES			
					V_R (volts)	V_F (volts)	I_O (Amps)	I_R (mA)	I_{surge} (Amps)	V_Z (min)	V_Z (nom) *	Tol V_Z %	P_D
					SIGNAL DIODES					REFERENCE DIODES			
					PRV (volts)	V_F @ I_F (volts)	I_R	t_{rr} (μ s)	TC %/°C	V_Z	T (min) °C	T (max) °C	
1N3169	S			R	500	1.30	240	16	3000				
1N3170	S			R	600	1.30	240	16	3000				
1N3171	S			R	700	1.92	240	16	3000				
1N3171A	S			R	700	1.9	240	16	3000				
1N3172	S			R	800	1.92	240	16	3000				
1N3172A	S			R	800	1.9	240	16	3000				
1N3173	S			R	900	1.92	240	16	3000				
1N3173A	S			R	900	1.9	240	16	3000				
1N3174	S			R	1000	1.92	240	16	3000				
1N3174A	S			R	1000	1.9	240	16	3000				
1N3175	S			R	1200	1.4	240	15	3000				
1N3176	S			R	1400	1.4	240	15	3000				
1N3177	S			R	1600	1.4	240	15	3000				
1N3179	S			HC	200	1.0	100M	10*					
1N3180	S			HC	110	1.5	500M	5.0*					
1N3181	S	1N5237A	2-32	ZD							8.2*	10	500M
1N3182	S	Varactor Diode, See table on page 1-86											
1N3183	S			R	350	1.0	0.5		4.0				
1N3184	S			R	500	1.0	0.5		4.0				
1N3185	S			R	700	2.0	0.5		4.0				
1N3186	S			R	1000	2.0	0.5		4.0				
1N3187	S			R	1500	3.0	0.5		4.0				
1N3188	S			R	2000	4.0	0.5		4.0				
1N3189	S	1N4003	3-24	R	200	1.1	1.0	0.2	30				
1N3190	S	1N4004	3-24	R	400	1.1	1.0	0.2	30				
1N3191	S	1N4005	3-24	R	600	1.1	1.0	0.2	30				
1N3192	S			SP	200	1.0	100M	10*					
1N3193	S	1N4003	3-24	R	200	1.2	0.75	0.2	40				
1N3194	S	1N4004	3-24	R	400	1.2	0.75	0.2	40				
1N3195	S	1N4005	3-24	R	600	1.2	0.75	0.2	40				
1N3196	S	1N4006	3-24	R	800	1.2	0.75	0.2	40				
1N3197	G			MS	30	1.0	150M	50*	0.3				
1N3198	S	1N5221B	2-32	ZD							2.25*		400M
1N3199	S	1N3155	2-45	RD						0.005	8.8	50	100
1N3200	S	1N3156	2-45	RD						0.003	8.8	50	100
1N3201	S	1N3156	2-45	RD						0.002	8.8	50	100
1N3202	S	1N3157	2-45	RD						0.001	8.8	50	100
1N3203	G			MS	25	0.5	35M	50*	0.3				
1N3206	S			HS	80	1.0	10M	5.0*	4.0				
1N3207	S			CS	50	1.0	150M	0.05*	6.0				
1N3208	S		3-14	R	50	1.5	15	10	250				
1N3209	S		3-14	R	100	1.5	15	10	250				
1N3210	S		3-14	R	200	1.5	15	10	250				
1N3211	S		3-14	R	300	1.5	15	10	250				
1N3212	S		3-14	R	400	1.5	15	10	250				
1N3213	S		3-14	R	500	1.5	15	10	250				
1N3214	S		3-14	R	600	1.5	15	10	250				
1N3215	S			HS	80	0.7	1.0M	10*	0.25				
1N3217 thru 1N3222		Tunnel Diodes, See table on page 1-92											
1N3223	S			MS	150	1.5	4.0M	20*	800				
1N3225	G			MS	40	1.0	5.0M	33*	0.5				
1N3227	S			R	100	3.3	0.5	0.250	12.5				
1N3228	S			R	200	3.3	0.5	0.250	12.5				
1N3229	S			R	400	3.3	0.5	0.250	12.5				
1N3230	S			R	600	3.3	0.5	0.250	12.5				
1N3231	S			R	800	3.3	0.5	0.250	12.5				
1N3232	S			R	1000	3.3	0.5	0.250	12.5				
1N3233	S			R	1200	3.3	0.5	0.250	12.5				
1N3234	S			R	1500	3.3	0.5	0.250	12.5				
1N3235	S			R	1800	3.3	0.5	0.250	12.5				
1N3236	S			R	2000	3.3	0.5	0.250	12.5				
1N3237	S			R	50	2.2	0.75	0.250	15.0				
1N3238	S			R	100	2.2	0.75	0.250	15.0				
1N3239	S			R	200	2.2	0.75	0.250	15.0				
1N3240	S			R	400	2.2	0.75	0.250	15.0				
1N3241	S			R	600	2.2	0.75	0.250	15.0				
1N3242	S			R	800	2.2	0.75	0.250	15.0				
1N3243	S			R	1000	2.2	0.75	0.250	15.0				
1N3244	S			R	1200	2.2	0.75	0.250	15.0				
1N3245	S			R	1500	2.2	0.75	0.250	15.0				
1N3246	S			R	50	1.1	1.0	0.250	20.0				
1N3247	S			R	100	1.1	1.0	0.250	20.0				
1N3248	S			R	200	1.1	1.0	0.250	20.0				
1N3249	S			R	400	1.1	1.0	0.250	20.0				
1N3250	S			R	600	1.1	1.0	0.250	20.0				
1N3251	S			R	800	1.1	1.0	0.250	20.0				
1N3252	S			R	1000	1.1	1.0	0.250	20.0				
1N3253	S	1N4003	3-24	R	200	1.2	0.75	0.2	40				
1N3254	S	1N4004	3-24	R	400	1.2	0.75	0.2	40				
1N3255	S	1N4005	3-24	R	600	1.2	0.75	0.2	40				

R—Rectifier, RD—Reference Diode, ZD—Zener Diode, GP—General Purpose, HC—High Conductance (≥ 20 mA @ ≤ 1 V), HS—High Speed Switch (Max $t_r < 0.3\mu$ s), CS—High Conductance, High Speed Switch, MS—Medium Speed Switch, PA—Parametric Amplifier, SP—Special Purpose.

1N248B, C thru 1N250B, C

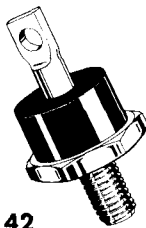
V_R to 600 V

$I_O = 20$ A

1N1191 thru 1N1198

1N1195A thru 1N1198A

1N3213 thru 1N3214



CASE 42
(DO-5)

Medium current silicon rectifiers. Unique double-case construction consists of hermetically sealed inner metallic case surrounded by molded external case; provides highest degree of ruggedness and reliability. Type numbers shown have cathode connected to case, but reverse-polarity units can be obtained by adding suffix "R" to standard type number, e. g. 1N248BR.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage and DC Blocking Voltage 1N248B, 1N1191 1N248C 1N249B, 1N1192 1N249C 1N1193 1N250B, 1N1194 1N250C 1N1195, 1N1195A 1N1196, 1N1196A 1N1197, 1N1197A, 1N3213 1N1198, 1N1198A, 1N3214	V_{RM} (rep) V_R	50 55 100 110 150 200 220 300 400 500 600	Volts
RMS Reverse Voltage 1N248B, 1N1191 1N248C 1N249B, 1N1192 1N249C 1N1193 1N250B, 1N1194 1N250C 1N1195, 1N1195A 1N1196, 1N1196A 1N1197, 1N1197A, 1N3213 1N1198, 1N1198A, 1N3214	V_R	35 38.5 70 77 105 140 154 210 280 350 420	Volts
Average 1/2-Wave Rectified Forward Current (Resistive Load, 60 Hz, $T_C = 150^\circ\text{C}$)	I_O	20	Amp
Peak Repetitive Forward Current ($T_C = 150^\circ\text{C}$)	I_{FM} (rep)	90	Amp
Peak Surge Current ($T_C = 150^\circ\text{C}$, superimposed on Rated Current at Rated Voltage, 1/2-Cycle, 1/120 sec)	I_{FM} (surge)	350	Amp