

1N3256-1N3313B

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_r (μ s)	TC %/°C	V_Z	T (min) °C	T (max) °C	
1N3256	S	1N4006	3-24	R	800	1.2	0.5	0.2	40				
1N3260	S	MR1220SB	3-49	R	50	1.6	160	12	2000				
1N3261	S	MR1221SB	3-49	R	100	1.6	160	12	2000				
1N3262	S	MR1222SB	3-49	R	150	1.6	160	12	2000				
1N3263	S	MR1223SB	3-49	R	200	1.6	160	12	2000				
1N3264	S	MR1224SB	3-49	R	250	1.6	160	12	2000				
1N3265	S	MR1225SB	3-49	R	300	1.6	160	12	2000				
1N3266	S	MR1226SB	3-49	R	350	1.6	160	12	2000				
1N3267	S	MR1227SB	3-49	R	400	1.6	160	12	2000				
1N3268	S			R	500	1.6	160	12	2000				
1N3269	S			R	600	1.6	160	12	2000				
1N3270	S			R	700	1.6	160	12	2000				
1N3271	S			R	800	1.6	160	12	2000				
1N3272	S			R	900	1.6	160	12	2000				
1N3273	S			R	1000	1.6	160	12	2000				
1N3274	S			R	1200	1.4	160	12	2000				
1N3275	S			R	1400	1.4	160	12	2000				
1N3276	S			R	1600	1.4	160	12	2000				
1N3277	S			R	200	1.3	0.75		25				
1N3278	S			R	400	1.3	0.75		25				
1N3279	S			R	600	1.3	0.75		25				
1N3280	S			R	800	1.3	0.75		25				
1N3281	S			R	1000	1.3	0.75		25				
1N3282	S			R	1000	3.7	0.1		2.5				
1N3283	S			R	1500	3.7	0.1		2.5				
1N3284	S			R	2000	3.7	0.1		2.5				
1N3285	S			R	2500	3.7	0.1		2.5				
1N3286	S			R	3000	3.7	0.1		2.5				
1N3287	CS			SP	6.0	0.312	1.0M	15*					
1N3288	S	MR1211SB	3-46	R	100	1.5	100	200	1600				
1N3288A	S			R	100	1.5	100	24	2300				
1N3289	S	MR1213SB	3-46	R	200	1.5	100	300	1600				
1N3289A	S			R	200	1.5	100	24	2300				
1N3290	S	MR1215SB	3-46	R	300	1.5	100	400	1600				
1N3290A	S			R	300	1.5	100	24	2300				
1N3291	S	MR1217SB	3-46	R	400	1.5	100	525	1600				
1N3291A	S			R	400	1.5	100	24	2300				
1N3292	S			R	500	1.5	100	650	1600				
1N3292A	S			R	500	1.5	100	21	1600				
1N3292B	S			R	500	1.5	100	21	2300				
1N3293	S			R	600	1.5	100	800	1600				
1N3293A	S			R	600	1.5	100	17	2300				
1N3294	S			R	800	1.5	100	1050	1600				
1N3294A	S			R	800	1.5	100	13	2300				
1N3295	S			R	1000	1.5	100	1300	1600				
1N3295A	S			R	1000	1.5	100	11	2300				
1N3296	S			R	1200	1.5	100	1600	1600				
1N3296A	S			R	1200	1.5	100	9.0	2300				
1N3297	S			R	1400	1.5	100	1800	1600				
1N3297A	S			R	1400	1.5	100	7.0	2300				
1N3298	S			CS	70	0.9	500M	0.2*	20				
1N3298A	S			CS	70	0.9	0.5A	0.2*					
1N3299 thru 1N3304, A		4-Layer Diodes, See table on page 1-96											
1N3305	S		2-16	ZD						6.8*	20	50W	
1N3305A	S		2-16	ZD						6.8*	10	50W	
1N3305B	S		2-16	ZD						6.8*	5.0	50W	
1N3306	S		2-16	ZD						7.5*	20	50W	
1N3306A	S		2-16	ZD						7.5*	10	50W	
1N3306B	S		2-16	ZD						7.5*	5.0	50W	
1N3307	S		2-16	ZD						8.2*	20	50W	
1N3307A	S		2-16	ZD						8.2*	10	50W	
1N3307B	S		2-16	ZD						8.2*	5.0	50W	
1N3308	S		2-16	ZD						9.1*	20	50W	
1N3308A	S		2-16	ZD						9.1*	10	50W	
1N3308B	S		2-16	ZD						9.1*	5.0	50W	
1N3309	S		2-16	ZD						10*	20	50W	
1N3309A	S		2-16	ZD						10*	10	50W	
1N3309B	S		2-16	ZD						10*	5.0	50W	
1N3310	S		2-16	ZD						11*	20	50W	
1N3310A	S		2-16	ZD						11*	10	50W	
1N3310B	S		2-16	ZD						11*	5.0	50W	
1N3311	S		2-16	ZD						12*	20	50W	
1N3311A	S		2-16	ZD						12*	10	50W	
1N3311B	S		2-16	ZD						12*	5.0	50W	
1N3312	S		2-16	ZD						13*	20	50W	
1N3312A	S		2-16	ZD						13*	10	50W	
1N3312B	S		2-16	ZD						13*	5.0	50W	
1N3313	S		2-16	ZD						14*	20	50W	
1N3313A	S		2-16	ZD						14*	10	50W	
1N3313B	S		2-16	ZD						14*	5.0	50W	

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.

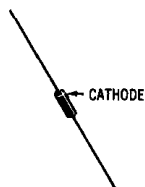
1N3213, 1N3214

For Specifications, See 1N248B Data Sheet

1N3282 thru 1N3286

V_R — to 3000 V
 $I_O = 100$ mA

CASE 51
(DO-7)



Low-current silicon rectifiers for applications requiring extremely high reverse-voltage capability. Hermetically sealed, subminiature glass package, offering excellent stability and reliability under environmental extremes.

MAXIMUM RATINGS (At 60 cps Sinusoidal Input, Resistive or Inductive Load)

Rating	Symbol	1N3282	1N3283	1N3284	1N3285	1N3286	Unit
Peak Repetitive Reverse Voltage	$V_{RM(rep)}$	1000	1500	2000	2500	3000	Volts
DC Blocking Voltage	V_R						
RMS Reverse Voltage	V_r	700	1050	1400	1750	2100	Volts
Average Half-Wave Rectified Forward Current (25°C Ambient) (100°C Ambient)	I_O	100 50	100 50	100 50	100 50	100 50	mA mA
Peak Surge Current (1/2-cycle, 60 Hz)	$I_{FM(surge)}$	2.5	2.5	2.5	2.5	2.5	Amp
Peak Repetitive Forward Current	$I_{FM(rep)}$	0.50	0.50	0.50	0.50	0.50	Amp
Operating and Storage Temperature Range	T_J, T_{stg}	-65 to + 150					°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Rating	Unit
Maximum Forward Voltage Drop @ 100 mA, Continuous DC (25°C)	V_F	2.5	Volts
Maximum Full-Cycle Average Forward Voltage Drop @ Rated Current (100°C)	$V_{F(AV)}$	1.2	Volts
Maximum Reverse Current @ Rated DC Voltage (25°C) (100°C)	I_R	1.0 10.0	μ A
Maximum Full-Cycle Average Reverse Current @ Max Rated PIV and Current (as Half-Wave Rectifier, Resistive Load, 100°C)	$I_{R(AV)}$	10.0	μ A
Typical Thermal Resistance, Junction to Ambient	θ_{JA}	400	°C/W

1N3282 thru 1N3286 (continued)

