

Semitronics Corp.

special package silicon rectifiers

stud mounted fast recovery silicon rectifiers

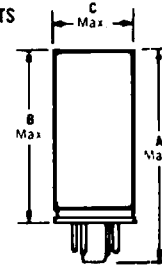
Type	Case Style	Maximum Peak Reverse Voltage (volts)	Maximum Average Forward Current (Amps) @ Case Temp. (°C)	Maximum Forward Voltage (volts) @ Forward Current (Amps)	Average Reverse Current (mA) @ Case Temp. (°C)	Recovery Time (nsec)	Peak Reverse Current (Amps)	Notes
1N3885	DO-10	100	12@100	1.4@12	5@100	200	2	3
1N3886	DO-10	200	12@100	1.4@12	5@100	200	2	3
1N3887	DO-10	300	12@100	1.4@12	5@100	200	2	3
1N3888	DO-10	400	12@100	1.4@12	5@100	200	2	3
1N3889	DO-4	50	12@100	1.4@12	5@100	200	2	3
1N3890	DO-4	100	12@100	1.4@12	5@100	200	2	3
1N3891	DO-4	200	12@100	1.4@12	5@100	200	2	3
1N3892	DO-4	300	12@100	1.4@12	5@100	200	2	3
1N3893	DO-4	400	12@100	1.4@12	5@100	200	2	3
1N3899	DO-5	50	20@100	1.4@20	10@100	200	3	3
1N3900	DO-5	100	20@100	1.4@20	10@100	200	3	3
1N3901	DO-5	200	20@100	1.4@20	10@100	200	3	3
1N3902	DO-5	300	20@100	1.4@20	10@100	200	3	3
1N3903	DO-5	400	20@100	1.4@20	10@100	200	3	3
1N3909	DO-5	50	30@100	1.4@30	15@100	200	3	3
1N3910	DO-5	100	30@100	1.4@30	15@100	200	3	3
1N3911	DO-5	200	30@100	1.4@30	15@100	200	3	3
1N3912	DO-5	300	30@100	1.4@30	15@100	200	3	3
1N3913	DO-5	400	30@100	1.4@30	15@100	200	3	3

special assemblies

VACUUM TUBE REPLACEMENTS



OCTAL BASE



Part No.	A	B	C	No. of Pins
1N1237				
1N1238				
1N2631	3 3/32"	2 23/32"	1 1/4"	8
1N2632				
1N2633				
1N1239	4 5/16"	3 3/4"	1 3/8"	3
1N1262	4 5/16"	3 3/4"	1 3/16"	8
1N2389	2 3/16" ± 1/16"	1 5/8" ± 1/16"	1 3/16"	8

multipellet silicon signal diodes

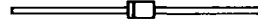
Part Number	BV @ 5μA (V)	I _r @ 25°C Max.		V _f Max.		C ₀ @ 0V Max. (pf)	t _r (nsec)	Package Type
		(nA)	@ V _r (V)	(V)	@ I _r (mA)			
1N4156	30	50	20	1.8	10	25	—	D035
1N4157	30	50	20	2.2	10	20	—	D035
1N4453	30	50	20	.8-0	10	30	—	D035
1N4828	30	100	20	.8-0	10	35	—	D035
1N4829	30	100	20	1.1	10	25	—	D035
1N4830	30	100	20	2.5	10	20	—	D035
1N5179	30	50	20	3.0	10	20	—	D035
MPD200	70	30	30	1.4	10	15	—	D035
MPD201	50	50	20	1.7	10	15	—	D035
MPD202	50	90	20	1.0	10	15	—	D035
MPD203	50	90	20	1.1	10	15	—	D035
STB567	50	500	20	1.1	10	15	—	D035
MPD300	100	30	30	2.3	10	10	—	D035
MPD301	60	40	20	2.2	10	10	—	D035
MPD302	60	90	20	2.2	10	10	—	D035
STB568	60	500	20	2.1	10	10	—	D035
MPD400	120	30	30	3.0	10	7	—	D035
MPD401	75	50	20	3.1	10	7	—	D035
MPD402	75	90	20	3.1	10	7	—	D035
STB569	75	500	20	3.1	10	7	—	D035



POWER SCHOTTKY RECTIFIERS

1A, Up to 40V

1N5817 1N5818 1N5819



ELECTRICAL CHARACTERISTIC (T_L = 25°C unless noted)*

* JEDEC registered values
Note 2: Pulse width = 300µs; duty cycle = 2%

CHARACTERISTIC	SYMBOL	1N5817	1N5818	1N5819	UNITS	CONDITIONS
Maximum Instantaneous Forward Voltage (Note 2)	V _F	0.450	0.550	0.600	V	i _F = 1.0A
		0.750	0.875	0.900	V	i _F = 3.0A
Maximum Instantaneous Reverse Current @ Rated DC Voltage (Note 2)	i _R	1.0	1.0	1.0	mA	T _L = 25°C
		10	10	10	mA	T _L = 100°C

3A, Up to 40V

1N5820 1N5821 1N5822



ELECTRICAL CHARACTERISTIC (T_L = 25°C unless noted)*

* JEDEC registered values
Note 2: Pulse width = 300µs; duty cycle = 2%

CHARACTERISTIC	SYMBOL	1N5820	1N5821	1N5822	UNITS	CONDITIONS
Maximum Instantaneous Forward Voltage (Note 2)	V _F	0.475	0.500	0.525	V	i _F = 3.0A
		0.850	0.900	0.950	V	i _F = 9.4A
Maximum Instantaneous Reverse Current @ Rated DC Voltage (Note 2)	i _R	2.0	2.0	2.0	mA	T _L = 25°C
		2.0	2.0	2.0	mA	T _L = 100°C

120 Amp Pk, 45V

SD51 DO-5



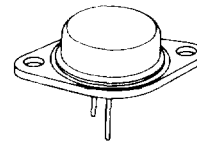
ELECTRICAL CHARACTERISTIC (T_{CASE} = 25°C)

CHARACTERISTIC	SYMBOL	LIMIT	UNITS	CONDITIONS
Maximum Instantaneous Reverse Current	i _R	50	mA	T _C = 25° C, V _R = 35V T _C = 125° C Pulse Width = 400µS Duty Cycle = 1 percent
		200	mA	
Maximum Instantaneous Forward Voltage	V _F	0.60	V	i _F = 60A T _C = 125° Pulse Width = 300µS Duty Cycle = 1 percent
Flexible Top Lead Option	V _F	0.65	V	
Maximum Capacitance	C _t	4000	pF	V _R = 5.0V
Maximum Voltage Rate of Change	dv/dt	700	V/µS	V _R = 35V

DUAL POWER SCHOTTKY RECTIFIERS

30 Amp Pk per diode, 45V

SD241 TO-3



ELECTRICAL CHARACTERISTIC (T_{CASE} = 25°C) Per Diode

CHARACTERISTIC	SYMBOL	LIMIT	UNITS	CONDITIONS
Maximum Instantaneous Reverse Current	i _R	25	mA	T _C = 25° C, V _R = 35V T _C = 125° C Pulse Width = 400µS Duty Cycle = 1 percent
		100	mA	
Maximum Instantaneous Forward Voltage	V _F	47	V	i _F = 10A Pulse Width = 300µS Duty Cycle = 1 percent T _C = 125° C
		60	V	
Maximum Capacitance	C _t	2000	pF	V _R = 5.0V
Maximum Voltage Rate of Change	dv/dt	1000	V/µS	V _R = 35V