

Diodes and Rectifiers

General Purpose Diodes	Type No.	Case	Drawing No.	(Amps.) Average Rectified Forward Current Ambient Temperature			(Volts) Crest Working Voltage (P.I.V.)	(Amps.) Single Cycle Surge	(μA) Max. I _R at P.I.V. at 25°C	SPECIAL FEATURES	
				25°C	50°C	100°C					
	1S940	SO6	AA	0.050	—	—	30	2.0	5.0	Low Cost Uni/G*	
	1S941	SO6	AA	0.050	—	—	50	2.0	5.0		
	1S942	SO6	AA	0.050	—	—	75	2.0	5.0		Uni/G* Package
	1S920	SO6	AA	0.20	—	0.100	50	4.0	0.1		
	1S921	SO6	AA	0.20	—	0.100	100	4.0	0.1		
	1S922	SO6	AA	0.20	—	0.100	150	4.0	0.1	Surge rating for 1 sec.	
	1S923	SO6	AA	0.20	—	0.100	200	4.0	0.1		
	1S134	SO7	BB	0.20	—	0.10	400	1.5	1.0		
	1S136	SO7	BB	0.20	—	0.10	600	1.5	1.0		
	1S138	SO7	BB	0.20	—	0.10	800	1.5	1.0		
	1S120	SO7	BB	0.20	—	0.11	50	1.5	0.1		
	1S121	SO7	BB	0.20	—	0.11	150	1.5	0.1	Typ. Cap. at -12V = 3pF	
	1S111	SO7	BB	0.40	—	0.25	225	8.0	0.2		
	1S113	SO7	BB	0.40	—	0.25	400	8.0	0.2		
	1S115	SO7	BB	0.40	—	0.25	600	8.0	0.2	Surge rating for 1 sec.	
	1S117	SO7	BB	0.40	—	0.25	800	8.0	0.2		
	1S140	SO7	BB	0.30	—	0.15	50	8.0	0.002		
	1S141	SO7	BB	0.30	—	0.15	100	8.0	0.002		
	1S142	SO7	BB	0.30	—	0.15	200	8.0	0.002		
	1N645	SO7	BB	0.40	0.35	0.25	225	3.0	0.2		
1N646	SO7	BB	0.40	0.35	0.25	300	3.0	0.2	Surge rating for 1 sec.		
1N647	SO7	BB	0.40	0.35	0.25	400	3.0	0.2			
1N648	SO7	BB	0.40	0.35	0.25	500	3.0	0.2			
1N649	SO7	BB	0.40	0.35	0.25	600	3.0	0.2			
Silicon Rectifiers	1S100	SO16	CC	—	0.75	0.50	100	40	2.0	SPECIAL FEATURES	
	1S101	SO16	CC	—	0.75	0.50	200	40	2.0		
	1S103	SO16	CC	—	0.75	0.50	400	40	2.0		
	1S105	SO16	CC	—	0.75	0.50	600	40	2.0		
	1S107	SO16	CC	—	0.75	0.50	800	40	2.0		
	1S109	SO16	CC	—	0.75	0.50	1000	40	2.0		
	1S020	SO16	CC	1.5	—	0.80	100	125	—		I _R = 50μA at 100°C at P.I.V.
	1S021	SO16	CC	1.5	—	0.80	200	125	—		
	1S023	SO16	CC	1.5	—	0.80	400	125	—		
	1S025	SO16	CC	1.5	—	0.80	600	125	—		
	1S027	SO16	CC	1.5	—	0.80	800	125	—		
Silect Rectifiers	1N4001	—	XX	1.0	1.0	0.75	50	30	10	Average Rectifier Forward Current 1 Amp up to 75°C	
	1N4002	—	XX	1.0	1.0	0.75	100	30	10		
	1N4003	—	XX	1.0	1.0	0.75	200	30	10		
	1N4004	—	XX	1.0	1.0	0.75	400	30	10		
	1N4005	—	XX	1.0	1.0	0.75	600	30	10		
	1N4006	—	XX	1.0	1.0	0.75	800	30	10		
	1N4007	—	XX	1.0	1.0	0.75	1000	30	10		
	1N2069	—	XX	0.75	—	0.5	200	40	10		
	1N2070	—	XX	0.75	—	0.5	400	40	10		
	1N2071	—	XX	0.75	—	0.5	600	40	10		
				T _{STUD} = 100°C	T _{STUD} = 125°C	T _{STUD} = 145°C					
	1S410	SO10	DD	—	3	1	100	40	5.0	1S410 and 1S420 series available with reverse polarity—suffix "R"	
	1S411	SO10	DD	—	3	1	200	40	5.0		
	1S413	SO10	DD	—	3	1	400	40	5.0		
	1S415	SO10	DD	—	3	1	600	40	5.0		
	1S417	SO10	DD	—	3	1	800	40	5.0		
	1S419	SO10	DD	—	3	1	1000	40	5.0		
	1S420	SO10	DD	10	6.5	4	100	200	—		I _R = 50μA at 100°C at P.I.V.
	1S421	SO10	DD	10	6.5	4	200	200	—		
1S423	SO10	DD	10	6.5	4	400	200	—			
1S425	SO10	DD	10	6.5	4	600	200	—			
1S427	SO10	DD	10	6.5	4	800	200	—			