

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	T _C (°C)	I _{FSM} (2)		V _{FM} @ I _{FM} (V)	R _{thJC} (°C/W)	Notes	Fax-on-Demand Number	Case Style, (Case Outline) (1)
				50 Hz (A)	60 Hz (A)					
Standard Recovery										
1N4044	50	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091 DO-205AB (DO-9) (R19)
1N4045	100	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4046	150	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4047	200	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4048	250	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4049	300	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4050	400	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4051	500	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4052	600	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4053	700	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4054	800	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4055	900	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
1N4056	1000	275	120	4800	5000	1.35	865	0.18	(8)(15)	20091
300HF40P	400	300	125	3800	4000	1.38	942	0.115	(6)(8)(10)	82021 R21
300HF80P	800	300	125	3800	4000	1.38	942	0.115	(6)(8)(10)	82021
300HF120P	1200	300	125	3800	4000	1.38	942	0.115	(6)(8)(10)	82021
300U10A	100	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031 R19
300U20A	200	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
300U40A	400	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
300U60A	600	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
300U80A	800	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
300U100A	1000	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
300U120AD	1200	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
300U140AD	1400	300	130	5500	5750	1.40	942	0.18	(6)(8)(10)	82031
301U80	800	300	120	5950	6250	1.62	942	0.15	(8)(15)(16)	82032 R22
301U120	1200	300	120	5950	6250	1.62	942	0.15	(8)(15)(16)	82032
301U160	1600	300	120	5950	6250	1.62	942	0.15	(8)(15)(16)	82032
301U200	2000	300	120	5950	6250	1.62	942	0.15	(8)(15)(16)	82032
301U250	2500	300	120	5950	6250	1.62	942	0.15	(8)(15)(16)	82032
SD300N04PV	400	380	100	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081 R23
SD300N08PV	800	380	100	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081
SD300N12PV	1200	380	100	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081
SD300N16PV	1600	380	100	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081
SD300N20PC	2000	380	100	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081 R24
SD300N25PC	2500	380	70	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081
SD300N28PC	2800	380	70	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081
SD300N32PC	3200	380	70	5090	5330	1.83	1180	0.11	(7)(10)(15)	82081
SD400N04PV	400	400	120	6940	7270	1.62	1500	0.11	(7)(10)(15)	82082 R23
SD400N08PV	800	400	120	6940	7270	1.62	1500	0.11	(7)(10)(15)	82082
SD400N12PV	1200	400	120	6940	7270	1.62	1500	0.11	(7)(10)(15)	82082
SD400N16PV	1600	400	120	6940	7270	1.62	1500	0.11	(7)(10)(15)	82082
SD400N20PC	2000	400	120	6940	7270	1.62	1500	0.11	(7)(10)(15)	82082 R24
SD400N24PC	2400	400	120	6940	7270	1.62	1500	0.11	(7)(10)(15)	82082



B-8



DO-205AB



DO-200AA (A-Puk)



B-43 (E-Puk)

Part Number	VRRM (V)	IF(AV) @ TC (A)	IFSM (2)		VFM @ IFM (V)	IFM (A)	RthJC (°C/W)	Notes	Fax-on-Demand Number	Case Style, (Case Outline) (1)	
			50 Hz (A)	60 Hz (A)							
Standard Recovery											
SD500N30PC	3000	475	55	6310	6600	1.66	1000	0.1	(7)(10)(15)	82095	B-8 (R25)
SD500N36PC	3600	475	55	6310	6600	1.66	1000	0.1	(7)(10)(15)	82095	
SD500N40PC	4000	475	55	6310	6600	1.66	1000	0.1	(7)(10)(15)	82095	
SD500N45PC	4500	475	55	6310	6600	1.66	1000	0.1	(7)(10)(15)	82095	
SD600N04PC	400	600	92	10900	11450	1.31	1500	0.1	(7)(10)(15)	82070	
SD600N08PC	800	600	92	10900	11450	1.31	1500	0.1	(7)(10)(15)	82070	
SD600N12PC	1200	600	92	10900	11450	1.31	1500	0.1	(7)(10)(15)	82070	
SD600N16PC	1600	600	92	10900	11450	1.31	1500	0.1	(7)(10)(15)	82070	
SD600N20PC	2000	600	92	10900	11450	1.31	1500	0.1	(7)(10)(15)	82070	
SD600N25PC	2500	600	54	8830	9250	1.44	1500	0.1	(7)(10)(15)	82070	
SD600N28PC	2800	600	54	8830	9250	1.44	1500	0.1	(7)(10)(15)	82070	
SD600N32PC	3200	600	54	8830	9250	1.44	1500	0.1	(7)(10)(15)	82070	
SD300C04C	400	650	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	DO-200AA (A-Puk) (R25)
SD300C08C	800	650	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	
SD300C12C	1200	650	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	
SD300C16C	1600	650	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	
SD300C20C	2000	650	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	
SD300C25C	2500	540	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	
SD300C28C	2800	540	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	
SD300C32C	3200	540	55	5090	5330	2.08	1500	0.073	(15)(17)(18)	82083	

Part Number	VRRM (V)	IF(AV) @ THS (A)	IFSM (2)		VFM @ IFM (V)	IFM (A)	RthJC:HS (°C/W)	Notes	Fax-on-Demand Number	Case Style, (Case Outline) (1)	
			50 Hz (A)	60 Hz (A)							
SD400C04C	400	800	55	6490	7265	1.86	1930	0.073	(15)(17)	82084	DO-200AA (A-Puk) (R26)
SD400C08C	800	800	55	6490	7265	1.86	1930	0.073	(15)(17)	82084	
SD400C12C	1200	800	55	6490	7265	1.86	1930	0.073	(15)(17)	82084	
SD400C16C	1600	800	55	6490	7265	1.86	1930	0.073	(15)(17)	82084	
SD400C20C	2000	800	55	6490	7265	1.86	1930	0.073	(15)(17)	82084	
SD400C24C	2400	800	55	6490	7265	1.86	1930	0.073	(15)(17)	82084	
SD1100C04C	400	1400	55	10930	11450	1.31	1500	0.038	(15)(17)	82072	B-43 (E-Puk) (R27)
SD1100C08C	800	1400	55	10930	11450	1.31	1500	0.038	(15)(17)	82072	
SD1100C12C	1200	1400	55	10930	11450	1.31	1500	0.038	(15)(17)	82072	
SD1100C16C	1600	1400	55	10930	11450	1.31	1500	0.038	(15)(17)	82072	
SD1100C20C	2000	1400	55	10930	11450	1.31	1500	0.038	(15)(17)	82072	
SD1100C25C	2500	1100	55	8830	9250	1.44	1500	0.038	(15)(17)	82072	
SD1100C28C	2800	1100	55	8830	9250	1.44	1500	0.038	(15)(17)	82072	
SD1100C32C	3200	1100	55	8830	9250	1.44	1500	0.038	(15)(17)	82072	

(1) See page 105 for Case Outline information

(2) $T_j = T_j \text{ max}$; 100% VRRM re-applied

(6) VFM measured at $T_j = 25^\circ\text{C}$

(7) Cathode to stud. To order anode to stud, change 'N' to 'R' in part number, e.g. SD500R30PC.

(8) Cathode to stud. To order anode to stud, append 'R' to part number, e.g. 1N4044R.

(10) Available with metric stud. To order, add 'M' to part number, e.g. 300U140ADM.

(15) VFM measured at $T_j = T_j \text{ max}$

(16) Available with strengthening cone for high-g applications. To order, change part number from '301' to '305'.

(17) DC operation, double side cooled.

(18) IF(AV) and R_{th} measured to heat sink.