

Rectifiers

Fast Recovery

185-300 Amps

International
IOR Rectifier

Part Number	V _{RRM} (V)	I _{F(AV)} @ T _C		I _{FSM} (1)		V _{FM} @ $\pi \times I_F(AV)$ (V)	R _{thJC} DC (°C/W)	t _{rr} (3) (ns)	Case Outline Number (7)	Notes	Case Style
		(A)	(°C)	50 Hz (A)	60 Hz (A)						
SD253N02S10P SD253N04S10P SD253N06S10P SD253N08S10P SD253N10S10P SD253N02S15P SD253N04S15P SD253N06S15P SD253N08S15P SD253N10S15P SD253N02S20P SD253N04S20P SD253N06S20P SD253N08S20P SD253N10S20P SD253N12S20P SD253N14S20P	200 400 600 800 1000 200 400 600 800 1000 200 400 600 800 1000 1200 1400	250	85	4500	4710	1.38	0.115	1000 1000 1000 1000 1000 1500 1500 1500 1500 1500 2000 2000 2000 2000 2000 2000 2000	(5)	(4)	DO-205AB (DO-9) 
R30DF6A	600							900			
R30DF6B	600							1100			
R30DF8A	800							900			
R30DF8B	800							1100			
R30DF10A	1000							1000			
R30DF10B	1000							1200			
R30DF12A	1200							1000			
R30DF12B	1200							1200			
R30DF14A	1400							1250			
R30DF14B	1400							1500			
R30DF16A	1600							1250			
R30DF16B	1600							1500			
R30DF18A	1800							2000			
R30DF18B	1800							2400			
R30DF20A	2000							2000			
R30DF20B	2000							2400			
R30DF22A	2200							2750			
R30DF22B	2200							3300			
R30DF24A	2400							2750			
R30DF24B	2400							3300			
R23AF6A R23AF6B R23AF8A R23AF8B R23AF10A R23AF10B R23AF12A R23AF12B R23AF14A R23AF14B R23AF16A R23AF16B R23AF18A R23AF18B R23AF20A R23AF20B R23AF22A R23AF22B R23AF24A R23AF24B	600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600 1800 1800 2000 2000 2200 2200 2400 2400	300 300 300 300 280 280 280 280 260 260 260 260 235 235 235 235 210 210 210 210	85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85	4960 4960 4960 4960 4775 4775 4775 4775 4530 4530 4530 4530 4400 4400 4400 4400 4000 4000 4000 4000	5200 5200 5200 5200 5000 5000 5000 5000 4750 4750 4750 4750 4600 4600 4600 4600 4200 4200 4200 4200	1.63 1.63 1.63 1.63 1.70 1.70 1.70 1.70 1.85 1.85 1.85 1.85 2.06 2.06 2.06 2.06 2.23 2.23 2.23 2.23	0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080	900 1100 900 1100 1000 1200 1000 1200 1250 1500 1250 1500 2000 2400 2000 2400 2750 3300 2750 3300	R17 B	(6) (13)	B-8 
R23AF6A	600	300	85	4960	5200	1.63	0.080	900			
R23AF6B	600	300	85	4960	5200	1.63	0.080	1100			
R23AF8A	800	300	85	4960	5200	1.63	0.080	900			
R23AF8B	800	300	85	4960	5200	1.63	0.080	1100			
R23AF10A	1000	280	85	4775	5000	1.70	0.080	1000			
R23AF10B	1000	280	85	4775	5000	1.70	0.080	1200			
R23AF12A	1200	280	85	4775	5000	1.70	0.080	1000			
R23AF12B	1200	280	85	4775	5000	1.70	0.080	1200			
R23AF14A	1400	260	85	4530	4750	1.85	0.080	1250			
R23AF14B	1400	260	85	4530	4750	1.85	0.080	1500			
R23AF16A	1600	260	85	4530	4750	1.85	0.080	1250			
R23AF16B	1600	260	85	4530	4750	1.85	0.080	1500			
R23AF18A	1800	235	85	4400	4600	2.06	0.080	2000			
R23AF18B	1800	235	85	4400	4600	2.06	0.080	2400			
R23AF20A	2000	235	85	4400	4600	2.06	0.080	2000			
R23AF20B	2000	235	85	4400	4600	2.06	0.080	2400			
R23AF22A	2200	210	85	4000	4200	2.23	0.080	2750			
R23AF22B	2200	210	85	4000	4200	2.23	0.080	3300			
R23AF24A	2400	210	85	4000	4200	2.23	0.080	2750			
R23AF24B	2400	210	85	4000	4200	2.23	0.080	3300			
R23AF6A R23AF6B R23AF8A R23AF8B R23AF10A R23AF10B R23AF12A R23AF12B R23AF14A R23AF14B R23AF16A R23AF16B R23AF18A R23AF18B R23AF20A R23AF20B R23AF22A R23AF22B R23AF24A R23AF24B	600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600 1800 1800 2000 2000 2200 2200 2400 2400	300 300 300 300 280 280 280 280 260 260 260 260 235 235 235 235 210 210 210 210	85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85	4960 4960 4960 4960 4775 4775 4775 4775 4530 4530 4530 4530 4400 4400 4400 4400 4000 4000 4000 4000	5200 5200 5200 5200 5000 5000 5000 5000 4750 4750 4750 4750 4600 4600 4600 4600 4200 4200 4200 4200	1.63 1.63 1.63 1.63 1.70 1.70 1.70 1.70 1.85 1.85 1.85 1.85 2.06 2.06 2.06 2.06 2.23 2.23 2.23 2.23	0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080 0.080	900 1100 900 1100 1000 1200 1000 1200 1250 1500 1250 1500 2000 2400 2000 2400 2750 3300 2750 3300	R18 A	(2) (13)	DO-200AA 
R23AF6A	600	300	85	4960	5200	1.63	0.080	900			
R23AF6B	600	300	85	4960	5200	1.63	0.080	1100			
R23AF8A	800	300	85	4960	5200	1.63	0.080	900			
R23AF8B	800	300	85	4960	5200	1.63	0.080	1100			
R23AF10A	1000	280	85	4775	5000	1.70	0.080	1000			
R23AF10B	1000	280	85	4775	5000	1.70	0.080	1200			
R23AF12A	1200	280	85	4775	5000	1.70	0.080	1000			
R23AF12B	1200	280	85	4775	5000	1.70	0.080	1200			
R23AF14A	1400	260	85	4530	4750	1.85	0.080	1250			
R23AF14B	1400	260	85	4530	4750	1.85	0.080	1500			
R23AF16A	1600	260	85	4530	4750	1.85	0.080	1250			
R23AF16B	1600	260	85	4530	4750	1.85	0.080	1500			
R23AF18A	1800	235	85	4400	4600	2.06	0.080	2000			
R23AF18B	1800	235	85	4400	4600	2.06	0.080	2400			
R23AF20A	2000	235	85	4400	4600	2.06	0.080	2000			
R23AF20B	2000	235	85	4400	4600	2.06	0.080	2400			
R23AF22A	2200	210	85	4000	4200	2.23	0.080	2750			
R23AF22B	2200	210	85	4000	4200	2.23	0.080	3300			
R23AF24A	2400	210	85	4000	4200	2.23	0.080	2750			
R23AF24B	2400	210	85	4000	4200	2.23	0.080	3300			

(1) 100% V_{RRM} reapplied @ T_j = T_j max = 125°C.

(2) Double side cooled.

(3) T_j = 25°C.

(4) Cathode-to-stud. For anode-to-stud change "N" to "R" (eg. SD103R02S20P).

(5) For devices up to 1200 V, outline number is R13B; for devices with V_{RRM} ≥ 1400 V, outline number is R14B.

(6) For reverse polarity, anode to stud, insert "R" before digit designating voltage code (R30DFR6A).

(7) For case outline drawing see page 150.

(13) U.S. standard.