Rectifiers

Fast Recovery

185-300 Amps

International IOR Rectifier

Part Number	V_{RRM} (V)	$I_{F(AV)}$ @ T_C (A)	(°C)	I_{FSM} (1) 50 Hz (A)	60 Hz (A)	V_{FM} @ π x $I_{F(AV)}$ (V)	R_{thJC} DC (°C/W)	t_{rr} (3) (ns)	Case Outline Number (7)	Notes	Case Style
SD253N02S10P	200							1000	(5)	(4)	DO-205AB (DO-9)
SD253N04S10P	400							1000			
SD253N06S10P	600							1000			
SD253N08S10P	800							1000			
SD253N10S10P	1000							1000			
SD253N02S15P	200							1500			
SD253N04S15P	400							1500			
SD253N06S15P	600							1500			
SD253N08S15P	800							1500			
SD253N10S15P	1000	250	85	4500	4710	1.38	0.115	1500			
SD253N02S20P	200							2000			
SD253N04S20P	400							2000			
SD253N06S20P	600							2000			
SD253N08S20P	800							2000			
SD253N10S20P	1000							2000			
SD253N12S20P	1200							2000			
SD253N14S20P	1400							2000			
R30DF6A	600	255	85	9550	10000	1.40	0.120	900	R17 B	(6) (13)	B-8
R30DF6B	600	255	85	9550	10000	1.40	0.120	1100			
R30DF8A	800	255	85	9550	10000	1.40	0.120	900			
R30DF8B	800	255	85	9550	10000	1.40	0.120	1100			
R30DF10A	1000	245	85	9070	9500	1.46	0.120	1000			
R30DF10B	1000	245	85	9070	9500	1.46	0.120	1200			
R30DF12A	1200	245	85	9070	9500	1.46	0.120	1000			
R30DF12B	1200	245	85	9070	9500	1.46	0.120	1200			
R30DF14A	1400	230	85	8600	9000	1.54	0.120	1250			
R30DF14B	1400	230	85	8600	9000	1.54	0.120	1500			
R30DF16A	1600	230	85	8600	9000	1.54	0.120	1250			
R30DF16B	1600	230	85	8600	9000	1.54	0.120	1500			
R30DF18A	1800	210	85	8300	8700	1.69	0.120	2000			
R30DF18B	1800	210	85	8300	8700	1.69	0.120	2400			
R30DF20A	2000	210	85	8300	8700	1.69	0.120	2000			
R30DF20B	2000	210	85	8300	8700	1.69	0.120	2400			
R30DF22A	2200	185	85	7800	8200	1.83	0.120	2750			
R30DF22B	2200	185	85	7800	8200	1.83	0.120	3300			
R30DF24A	2400	185	85	7800	8200	1.83	0.120	2750			
R30DF24B	2400	185	85	7800	8200	1.83	0.120	3300			
R23AF6A	600	300	85	4960	5200	1.63	0.080	900	R18 A	(2) (13)	DO-200AA
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.