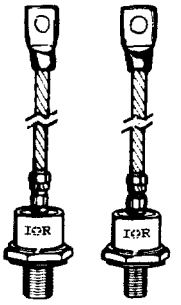
Rectifiers

Fast Recovery

135–200 Amps

Part Number	V_{RRM} (V)	$I_{F(AV)}$ @ T_C (A)	(°C)	I_{FSM} (1) 50 Hz (A)	60 Hz (A)	V_{FM} @ $\pi \times I_{F(AV)}$ (V)	R_{thJC} DC (°C/W)	t_{rr} (2) (ns)	Case Outline Number (7)	Notes	Case Style
SD153N02S10P	200							1000	(4)	(3)	**DO-205AC** (DO-30) **DO-205AA** (DO-8) 
SD153N04S10P	400							1000			
SD153N06S10P	600							1000			
SD153N08S10P	800							1000			
SD153N10S10P	1000							1000			
SD153N02S15P	200							1500			
SD153N04S15P	400							1500			
SD153N06S15P	600	150	85	3600	3770	1.55	0.160	1500			
SD153N08S15P	800							1500			
SD153N10S15P	1000							1500			
SD153N12S15P	1200							1500			
SD153N14S15P	1400							1500			
SD153N02S20P	200							2000			
SD153N04S20P	400							2000			
SD153N06S20P	600							2000			
SD153N08S20P	800							2000			
SD153N10S20P	1000							2000			
SD153N12S20P	1200							2000			
SD153N14S20P	1400							2000			
R23DGF6A	600	190	85	4960	5200	1.49	0.150	900	**R13 A**	(6) (13)	**DO-205AB** (DO-9)
R23DGF6B	600	190	85	4960	5200	1.49	0.150	1100			
R23DGF8A	800	190	85	4960	5200	1.49	0.150	900			
R23DGF8B	800	190	85	4960	5200	1.49	0.150	1100			
R23DGF10A	1000	180	85	4775	5000	1.53	0.150	1000			
R23DGF10B	1000	180	85	4775	5000	1.53	0.150	1200			
R23DGF12A	1200	180	85	4775	5000	1.53	0.150	1000			
R23DGF12B	1200	180	85	4775	5000	1.53	0.150	1200			
R23DF14A	1400	170	85	4530	4750	1.65	0.150	1250	**R14 A**		
R23DF14B	1400	170	85	4530	4750	1.65	0.150	1500			
R23DF16A	1600	170	85	4530	4750	1.65	0.150	1250			
R23DF16B	1600	170	85	4530	4750	1.65	0.150	1500			
R23DF18A	1800	150	85	4400	4600	1.80	0.150	2000			
R23DF18B	1800	150	85	4400	4600	1.80	0.150	2400			
R23DF20A	2000	150	85	4400	4600	1.80	0.150	2000			
R23DF20B	2000	150	85	4400	4600	1.80	0.150	2400			
R23DF22A	2200	135	85	4000	4200	1.92	0.150	2750			
R23DF22B	2200	135	85	4000	4200	1.92	0.150	3300			
R23DF24A	2400	135	85	4000	4200	1.92	0.150	2750			
R23DF24B	2400	135	85	4000	4200	1.92	0.150	3300			
SD203N02S10P	200							1000	(5)	(3)	
SD203N04S10P	400							1000			
SD203N06S10P	600							1000			
SD203N08S10P	800							1000			
SD203N10S10P	1000							1000			
SD203N12S10P	1200							1000			
SD203N14S10P	1400							1000			
SD203N02S15P	200							1500			
SD203N04S15P	400							1500			
SD203N06S15P	600	200	85	4200	4400	1.65	0.115	1500			
SD203N08S15P	800							1500			
SD203N10S15P	1000							1500			
SD203N12S15P	1200							1500			
SD203N14S15P	1400							1500			
SD203N02S20P	200							2000			
SD203N04S20P	400							2000			
SD203N06S20P	600							2000			
SD203N08S20P	800							2000			
SD203N10S20P	1000							2000			
SD203N12S20P	1200							2000			
SD203N14S20P	1400							2000			
SD203N16S20P	1600							2000			
SD203N18S20P	1800							2000			
SD203N20S20P	2000							2000			
SD203N22S20P	2200							2000			

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

(2) T_j = 25°C.

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

(4) For devices up to 1200 V, outline number is R8B/R10B; for devices with V_{RRM} >= 1400 V, outline number is R9B/R11B.

(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 (R23DGFR6A).

(7) For case outline drawing see page 150.

(13) U.S. standard.