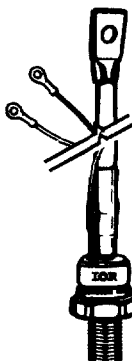


Thyristors

Phase Control Type

280-520 Amps RMS

International
IOR Rectifier

Part Number	VRRM VDRM (V)	I _{T(RMS)} (A)	I _{T(AV)} @ T _C		I _{TSM} (1)		V _{GT} (2) (V)	I _{GT} (2) (mA)	V _{TM} (3) (V)	dv/dt (4) (V/μs)	R _{thJC} DC (°C/W)	Case Outline Number (9)	Notes	Case Style
			(A)	(°C)	50 Hz (A)	60 Hz (A)								
ST180S02P ST180S04P ST180S06P ST180S08P ST180S10P ST180S12P ST180S14P ST180S16P	200 400 600 800 1000 1200 1400 1600	280	180	90	4260	4460	3.0	150	1.72	400	0.12	T9 A	(5)	TO-209AB (TO-93) 
												T10 A		
ST200S02P ST200S04P ST200S06P ST200S08P ST200S10P ST200S12P ST200S14P ST200S16P	200 400 600 800 1000 1200 1400 1600	320	200	90	4580	4795	3.0	150	1.60	400	0.12	T9 A		
												T10 A		
ST230S02P ST230S04P ST230S06P ST230S08P ST230S10P ST230S12P ST230S14P ST230S16P	200 400 600 800 1000 1200 1400 1600	360	230	85	4890	5120	3.0	150	1.50	400	0.12	T9 A		
												T10 A		
S23DG2A0 S23DG2B0 S23DG4A0 S23DG4B0 S23DG6A0 S23DG6B0 S23DG8A0 S23DG8B0 S23D10A0 S23D10B0 S23D12A0 S23D12B0 S23D14A0 S23D14B0 S23D16A0 S23D16B0 S23D18A0 S23D20A0	200 200 400 400 600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600 1800 2000	370	235 215 235 215 215 200 215 200 200 190 200 190 190 180 190 180 180 180	85	6600 6100 6600 6100 6100 5350 6100 5350 5350 4950 5350 4950 4950 4600 4950 4600 4600 4600	6900 6400 6900 6400 6400 5600 6400 5600 5600 5200 5600 5200 5200 4800 5200 4800 4800 4800	2.5	150	1.22 1.30 1.22 1.30 1.30 1.38 1.30 1.38 1.38 1.44 1.38 1.44 1.44 1.53 1.44 1.53 1.53 1.53	500	0.14	T9 B	(6) (7) (13)	
												T10 B	(7) (8) (13) (6) (7) (13) (7) (8) (13)	
ST280S02P ST280S04P ST280S06P ST280S08P	200 400 600 800	440	280	85	6160	6450	3.0	150	1.28	400	0.12	T9 A		
ST260S02P ST260S04P ST260S06P ST260S08P ST260S10P ST260S12P ST260S14P ST260S16P	200 400 600 800 1000 1200 1400 1600	410	260	75	6320	6620	3.0	200	1.90	400	0.11	T12 A	(5)	TO-209AE (TO-118) 
ST300S02P ST300S04P ST300S06P ST300S08P ST300S10P ST300S12P ST300S14P ST300S16P	200 400 600 800 1000 1200 1400 1600	471	300	75	7110	7445	3.0	200	1.65	400	0.11			
ST330S02P ST330S04P ST330S06P ST330S08P ST330S10P ST330S12P ST330S14P ST330S16P	200 400 600 800 1000 1200 1400 1600	520	330	75	7900	8270	3.0	200	1.50	400	0.11			

(1) 100% VRRM reapplied @ T_j = T_j max. 125°C.

(2) T_j = 25°C.

(3) $\pi \times I_T(AV)$ @ T_j = 25°C.

(4) Linear to 0.8 VDRM; T_j = 125°C.

(5) Available with metric stud; change "P" to "M" at end of part number: ST180S10M.

(6) Max. T_j = 125°C for standard types; High temperature types

available with max. T_j = 150°C for VRRM <= 1200 V.

Insert "H" before voltage code: S23DGH2A0.

(7) Available with flat base: to specify add "F" to the end of part number: S23D20A0F.

(8) Max. T_j = 125°C.

(13) U.S. Standard.

(9) For case outline drawing see page 154.