





Phase Control Thyristors

470 TO 1420 AMPS RMS

International
IOR Rectifier

T-25-01

Part number	V _{RRM} V _{DRM} (V)	I _{T(RMS)} (A)	I _{T(AV)} (A)	T _C (°C)	I _{TSM} (1)		V _{GT} (2) (V)	I _{GT} (2) (mA)	V _{TM} (3) (V)	dv/dt (4) (V/μs)	R _{thJC} DC (5) (°C/W)	Case Outline Number	Notes	Case style
					50Hz (A)	60Hz (A)								
ST230C02C ST230C04C ST230C06C ST230C08C ST230C10C ST230C12C ST230C14C ST230C16C	200 400 600 800 1000 1200 1400 1600	810	410	55	4890	5120	3.0	150	1.90	400	0.095	T13 A		TO-200AB (A-PUK) 
S23A2A S23A2B S23A4A S23A4B S23A6A S23A6B S23A8A S23A8B S23A10A S23A10B S23A12A S23A12B S23A14A S23A14B S23A16A S23A16B S23A18A S23A20A	200 200 400 400 600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600 1800 2000	660 590 660 590 590 540 590 540 540 510 540 510 510 470 510 470 470 470	420 375 420 375 375 345 375 345 345 325 345 325 325 300 325 300 300 300	70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70	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	1.40 1.53 1.40 1.53 1.53 1.64 1.53 1.64 1.64 1.73 1.64 1.73 1.73 1.84 1.73 1.84 1.84 1.84	500	0.085	T13 B (6) (13) (7) (13) (6) (13) (7) (13)		
ST260C02C ST260C04C ST260C06C ST260C08C ST260C10C ST260C12C ST260C14C ST260C16C	200 400 600 800 1000 1200 1400 1600	1080	550	55	6320	6620	3.0	200	2.60	400	0.050	T14 A		TO-200AB (E-PUK) 
ST280C02C ST280C04C ST280C06C ST280C08C ST280C10C ST280C12C ST280C14C ST280C16C	200 400 600 800 1000 1200 1400 1600	1010	505	55	6160	6450	3.0	150	1.36	400	0.095	T13 A		TO-200AB (A-PUK) 
ST300C02C ST300C04C ST300C06C ST300C08C ST300C10C ST300C12C ST300C14C ST300C16C	200 400 600 800 1000 1200 1400 1600	1280	650	55	7110	7445	3.0	200	2.25	400	0.050	T14 A		TO-200AB (E-PUK) 
ST330C02C ST330C04C ST330C06C ST330C08C ST330C10C ST330C12C ST330C14C ST330C16C	200 400 600 800 1000 1200 1400 1600	1420	720	55	7900	8270	3.0	200	2.00	400	0.050	T14 A		
S30E2A S30E2B S30E4A S30E4B S30E6A S30E6B S30E8A S30E8B S30E10A S30E10B S30E12A S30E12B S30E14A S30E14B S30E16A S30E16B S30E18A S30E20A	200 200 400 400 600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600 1800 2000	1360 1220 1360 1220 1220 1115 1220 1115 1115 1050 1115 1050 1050 975 1050 975 975 975	865 775 865 775 775 710 775 710 710 665 710 665 665 620 665 620 620 620	70	13350 11950 13350 11950 11950 11000 11950 11000 11000 10050 11000 10050 10050 9050 10050 9050 9050 9050	14000 12500 14000 12500 12500 11500 12500 11500 11500 10500 11500 10500 10500 9500 10500 9500 9500 9500	2.5	150	1.41 1.53 1.41 1.53 1.53 1.64 1.53 1.64 1.64 1.73 1.64 1.73 1.73 1.84 1.73 1.84 1.84 1.84	500	0.040	T14 B (6) (13) (7) (13) (6) (13) (7) (13)		

(1) 100% V_{RRM} reapplied T_J = 125°C.(2) T_J = 25 °C.(3) π × I_{T(AV)} @ T_J = 25°C(4) Linear to 0.8 V_{DRM}; T_J = 125 °C.

(5) Double side cooled.

(6) Max. T_J = 125 °C for standard types. High temperature types available with max. T_J = 150 °C for V_{RRM} ≤ 1200V. To specify insert "H" before voltage code: S23AH2A.(7) Max. T_J = 125 °C.

(13) U.S. Standard