Thyristors

Phase Control Type

470–1420 Amps RMS

International IOR Rectifier

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ @ T_C (A)	(T_C °C)	I_{TSM} (1) 50 Hz (A)	I_{TSM} (1) 60 Hz (A)	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 (8)	Notes	Case Style
ST230C02C	200											T13 A		TO-200AB (A-PUK)
ST230C04C	400													
ST230C06C	600													
ST230C08C	800	810	410	55	4890	5120	3.0	150	1.90	400	0.095			
ST230C10C	1000													
ST230C12C	1200													
ST230C14C	1400													
ST230C16C	1600													
S23A2A	200	660	420		6600	6900			1.40			T13 B	(6) (13)	
S23A2B	200	590	375		6100	6400			1.53					
S23A4A	400	660	420		6600	6900			1.40					
S23A4B	400	590	375		6100	6400			1.53					
S23A6A	600	590	375		6100	6400			1.53					
S23A6B	600	540	345		5350	5600			1.64					
S23A8A	800	590	375		6100	6400			1.53					
S23A8B	800	540	345		5350	5600			1.64					
S23A10A	1000	540	345	70	5350	5600	2.5	150	1.64	500	0.085			
S23A10B	1000	510	325		4950	5200			1.73				(7) (13)	
S23A12A	1200	540	345		5350	5600			1.64				(6) (13)	
S23A12B	1200	510	325		4950	5200			1.73				(7) (13)	
S23A14A	1400	510	325		4950	5200			1.73					
S23A14B	1400	470	300		4600	4800			1.84					
S23A16A	1600	510	325		4950	5200			1.73					
S23A16B	1600	470	300		4600	4800			1.84					
S23A18A	1800	470	300		4600	4800			1.84					
S23A20A	2000	470	300		4600	4800			1.84					
ST280C02C	200											T13 A		
ST280C04C	400													
ST280C06C	600													
ST280C08C	800	1010	505	55	6160	6450	3.0	150	1.36	400	0.095			
ST280C10C	1000													
ST280C12C	1200													
ST280C14C	1400													
ST280C16C	1600													
ST260C02C	200											T14 A		TO-200AB (E-PUK)
ST260C04C	400													
ST260C06C	600													
ST260C08C	800	1080	550	55	6320	6620	3.0	200	2.60	400	0.050			
ST260C10C	1000													
ST260C12C	1200													
ST260C14C	1400													
ST260C16C	1600													
ST300C02C	200													
ST300C04C	400													
ST300C06C	600													
ST300C08C	800	1280	650	55	7110	7445	3.0	200	2.25	400	0.050			
ST300C10C	1000													
ST300C12C	1200													
ST300C14C	1400													
ST300C16C	1600													
ST330C02C	200													
ST330C04C	400													
ST330C06C	600													
ST330C08C	800	1420	720	55	7900	8270	3.0	200	2.00	400	0.050			
ST330C10C	1000													
ST330C12C	1200													
ST330C14C	1400													
ST330C16C	1600													
S30E2A	200	1360	865		13350	14000			1.41			T14 B	(6) (13)	
S30E2B	200	1220	775		11950	12500			1.53					
S30E4A	400	1360	865		13350	14000			1.41					
S30E4B	400	1220	775		11950	12500			1.53					
S30E6A	600	1220	775		11950	12500			1.53					
S30E6B	600	1115	710		11000	11500			1.64					
S30E8A	800	1220	775		11950	12500			1.53					
S30E8B	800	1115	710	70	11000	11500	2.5	150	1.64	500	0.040			
S30E10A	1000	1115	710		11000	11500			1.64				(7) (13)	
S30E10B	1000	1050	665		10050	10500			1.73				(6) (13)	
S30E12A	1200	1115	710		11000	11500			1.64				(7) (13)	
S30E12B	1200	1050	665		10050	10500			1.73					
S30E14A	1400	1050	665		10050	10500			1.73					
S30E14B	1400	975	620		9050	9500			1.84					
S30E16A	1600	1050	665		10050	10500			1.73					
S30E16B	1600	975	620		9050	9500			1.84					
S30E18A	1800	975	620		9050	9500			1.84					
S30E20A	2000	975	620		9050	9500			1.84					

(1) 100% V_{RRM} reapplied T_j = 125°C.
(2) T_j = 25°C.
(3) π x $I_{T(AV)}$ @ 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. Insert "H" before voltage code: S23AH2A.
(7) Max. T_j =125°C.
(13) U.S. Standard.

(8) For case outline drawing see page 154.