Thyristors
Phase Control Type
470–1130 Amps

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} @ I_{TM} (V)	V_{TM} @ I_{TM} (A)	dv/dt (4) (V/µs)	R_{thJC} DC (°C/W)	Case Outline Number (15)	Notes	Case Style
ST300S02P0	200	470	300	75	6730	7040	3.0	200	1.66	940	500	0.1	T11	(10) (11) (12) (16)	TO-209AE (TO-118) 
ST300S04P0	400														
ST300S06P0	600														
ST300S08P0	800														
ST300S10P0	1000														
ST300S12P0	1200														
ST300S14P0	1400														
ST300S16P0	1600														
ST300S18P0	1800														
ST300S20P0	2000														
ST330S02P0	200	520	330	75	7570	7920	3.0	200	1.51	1040	500	0.1			
ST330S04P0	400														
ST330S06P0	600														
ST330S08P0	800														
ST330S10P0	1000														
ST330S12P0	1200														
ST330S14P0	1400														
ST330S16P0	1600														

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ @ T_{HS} (A)	(T_{HS} °C)	I_{TSM} (1) 50 Hz (A)	I_{TSM} (1) 60 Hz (A)	V_{GT} (2) (V)	I_{GT} (2) (mA)	V_{TM} @ I_{TM} (V)	V_{TM} @ I_{TM} (A)	dv/dt (4) (V/µs)	$R_{thJ\text{-}HS}$ DC (°C/W)	Case Outline Number (15)	Notes	Case Style
ST110C02C0	200	500	255	55	2270	2380	3.0	150	1.90	550	500	0.11	T12	(12) (14) (16)	TO-200AB (A-PUK) 
ST110C04C0	400														
ST110C06C0	600														
ST110C08C0	800														
ST110C10C0	1000														
ST110C12C0	1200														
ST110C14C0	1400														
ST110C16C0	1600														
ST180C02C0	200	660	350	55	4200	4400	3.0	150	1.96	750	500	0.08			
ST180C04C0	400														
ST180C06C0	600														
ST180C08C0	800														
ST180C10C0	1000														
ST180C12C0	1200														
ST180C14C0	1400														
ST180C16C0	1600														
ST180C18C0	1800														
ST180C20C0	2000														
ST230C02C0	200	780	410	55	4800	5000	3.0	150	1.69	880	500	0.08			
ST230C04C0	400														
ST230C06C0	600														
ST230C08C0	800														
ST230C10C0	1000														
ST230C12C0	1200														
ST230C14C0	1400														
ST230C16C0	1600														
ST280C02C0	200	960	500	55	6600	6900	3.0	150	1.36	1050	500	0.08			
ST280C04C0	400														
ST280C06C0	600														
ST280CH02C0	200	1130	500	80	6000	6300	3.0	150	1.35	1000	500	0.08		(12) (13) (14) (16)	
ST280CH04C0	400														
ST280CH06C0	600														

(1) @ $T_j = T_j$ max. 125°C and 100% V_{RRM} reapplied.
(2) T_j = 25°C.
(4) Linear to 0.8 V_{DRM}, T_j = 125°C.
(10) Available with metric stud; to specify change "P" to "M" in part number (e.g., ST300S10M0).
(11) Available with flat base: to specify change "P" to "F" in part number (e.g., ST330S10F0).
(12) For faston terminals change last "0" to "1" in part number (e.g., ST300S02P1).
(13) Max T_j = 150°C.
(14) DC operation, double sided cooled.
(15) For case outline drawing see page 0-2.
(16) V_{TM} measured at $T_j = T_j$ max.