

Thyristors

Inverter Type

345-610 Amps RMS

International
IOR Rectifier

Part Number	VRRM VDRM (V)	IT(RMS) (A)	IT(AV) TC		ITSM (1)		VGT (2) (V)	IGT (2) (mA)	VTM (3) (V)	Iq (μs)	RthJC DC (7) (°C/W)	Case Outline Number (8)	Notes	Case Style
			(A)	(°C)	50 Hz (A)	60 Hz (A)								
ST093C06CFJ ST093C06CFF ST093C08CFJ ST093C08CFF ST093C10CFJ ST093C10CFF ST093C12CFJ ST093C12CFF	600 600 800 800 1000 1000 1200 1200	345	220	55	1600	1675	3.0	200	1.96	25 40 25 40 25 40 25 40	0.135	T13 A	(5)	TO-200AB (A-PUK) 
ST103C02CCL ST103C02CCJ ST103C04CCL ST103C04CCJ ST103C06CCL ST103C06CCJ	200 200 400 400 600 600	376	240	55	1900	2000	3.0	200	1.73	15 25 15 25 15 25	0.135			
ST163C02CCN ST163C02CCK ST163C04CCN ST163C04CCK ST163C06CCN ST163C06CCK ST163C06CCF ST163C08CCK ST163C08CCF ST163C10CCK ST163C10CCF ST163C12CCK ST163C12CCF	200 200 400 400 600 600 600 800 800 1000 1000 1200 1200	475	305	55	2350	2460	3.0	200	2.30	10 20 10 20 10 20 40 20 40 20 40 20 40	0.095			
ST173C06CFJ ST173C06CFF ST173C08CFJ ST173C08CFF ST173C10CFJ ST173C10CFF ST173C12CFJ ST173C12CFF	600 600 800 800 1000 1000 1200 1200	520	330	55	2800	2930	3.0	200	2.07	25 40 25 40 25 40 25 40	0.095			
ST183C02CCN ST183C02CCK ST183C04CCN ST183C04CCK ST183C06CCN ST183C06CCK	200 200 400 400 600 600	530	370	55	3000	3140	3.0	200	1.96	10 20 10 20 10 20	0.095			
ST203C06CFJ ST203C06CFF ST203C08CFJ ST203C08CFF ST203C10CFJ ST203C10CFF ST203C12CFJ ST203C12CFF	600 600 800 800 1000 1000 1200 1200	580	370	55	3100	3245	3.0	200	1.72	25 40 25 40 25 40 25 40	0.095			
ST223C02CCL ST223C02CCJ ST223C04CCL ST223C04CCJ ST223C06CCL ST223C06CCJ	200 200 400 400 600 600	610	390	55	3900	4080	3.0	200	1.58	15 25 15 25 15 25	0.095			

(1) 100% VRRM reapplied @ $T_j = T_j \text{ max. } 125^\circ\text{C}$.

(2) $T_j = 25^\circ\text{C}$.

(3) $\pi \times I_T(\text{AV})$, $T_j = 25^\circ\text{C}$.

(4) t_q : $T_j = \text{max rated}$, reapplied $dV/dt = 20 \text{ V}/\mu\text{s}$.

(5) t_q : $T_j = \text{max rated}$, reapplied $dV/dt = 200 \text{ V}/\mu\text{s}$.

(7) Double side cooled.

(8) For case outline drawing see page 154.