

Thyristors

Inverter Type

410-1875 Amps

International
Rectifier

Part Number (1)	VRRM VDRM (V)	IT(RMS) (A)	IT(AV) @ THS		ITSM (2)		VGT (3) (V)	IGT (3) (mA)	VTM @ ITM		TQ (1) (μs)	RthJ-HS DC (°C/W)	Case Outline Number (7)	Notes	Case Style
			(A)	(°C)	50 Hz (A)	60 Hz (A)			(V)	(A)					
ST083C02CF..0 ST083C04CF..0 ST083C06CF..0 ST083C08CF..0 ST083C10CF..0 ST083C12CF..0	200 400 600 800 1000 1200	410	200	55	2060	2160	3.0	200	2.15	300	10 to 20 18 to 30	0.1	T12	(5) (6) (8)	TO-200AB (A-PUK)
ST103C02CF..0 ST103C04CF..0 ST103C06CF..0 ST103C08CF..0	200 400 600 800	500	240	55	2530	2650	3.0	200	1.73	300	10 to 20	0.1			
ST173C02CF..0 ST173C04CF..0 ST173C06CF..0 ST173C08CF..0 ST173C10CF..0 ST173C12CF..0	200 400 600 800 1000 1200	610	330	55	3940	4120	3.0	200	2.07	600	18 to 30	0.08			
ST183C02CF..0 ST183C04CF..0 ST183C06CF..0 ST183C08CF..0	200 400 600 800	690	370	55	4120	4310	3.0	200	1.80	600	10 to 20	0.08			
ST203C04CF..0 ST203C06CF..0 ST203C08CF..0 ST203C10CF..0 ST203C12CF..0	400 600 800 1000 1200	700	370	55	4420	4630	3.0	200	1.72	600	25 to 30	0.08			
ST223C02CF..0 ST223C04CF..0 ST223C06CF..0 ST223C08CF..0	200 400 600 800	745	390	55	4920	5150	3.0	200	1.58	600	10 to 20	0.08			
ST303C02CF..0 ST303C04CF..0 ST303C06CF..0 ST303C08CF..0 ST303C10CF..0 ST303C12CF..0	200 400 600 800 1000 1200	1180	620	55	6690	7000	3.0	200	2.16	1255	10 to 20 20 to 30	0.04	T13	(5) (6) (8)	TO-200AB (E-PUK)
ST333C02CF..0 ST333C04CF..0 ST333C06CF..0 ST333C08CF..0	200 400 600 800	1435	720	55	9250	9700	3.0	200	1.96	1810	12 to 25	0.04			
ST303C02LF..0 ST303C04LF..0 ST303C06LF..0 ST303C08LF..0 ST303C10LF..0 ST303C12LF..0	200 400 600 800 1000 1200	995	515	55	6690	7000	3.0	200	2.16	1255	10 to 20 20 to 30	0.05	T14	(5) (6) (8)	TO-200AC (B-PUK)
ST333C02LF..0 ST333C04LF..0 ST333C06LF..0 ST333C08LF..0	200 400 600 800	1230	620	55	9250	9700	3.0	200	1.96	1810	12 to 25	0.05			
ST733C02LF..0 ST733C04LF..0 ST733C06LF..0	200 400 600	1875	930	55	1350	1400	3.0	200	1.68	1600	15 to 20	0.04			

(1) Insert the appropriate tq code (e.g., ST173C02CFK0), reapplied dV/dt = 200 V/μs.

Code	N	M	L	P	K	J	H
tq (μs)	10	12	15	18	20	25	30

(2) 100% VRRM reapplied @ Tj = Tj max. 125°C.

(3) Tj = 25°C.

(5) DC operation double sided cooled.

(6) For faston terminals change "0" to "1" at the end of part number (e.g., ST173C02CF..1)

(7) For case outline drawing see page 0-2.

(8) VTM measured at Tj = Tj max.