









Part Number (1)	VRRM VORM (V)	IT(RMS) (A)	IT(AV) @ Tc		ITSM (2)		VGT (3) (V)	IGT (3) (mA)	VTM @ ITM		TQ (1) (µs)	RthJC DC (°C/W)	Case Outline Number (7)	Notes	Case Style
			(A)	(°C)	50 Hz (A)	60 Hz (A)			(V)	(A)					
ST083S02PF..0 ST083S04PF..0 ST083S06PF..0 ST083S08PF..0 ST083S10PF..0 ST083S12PF..0	200 400 600 800 1000 1200	135	85	85	2060	2160	3.0	200	2.15	300	10 to 20	0.195	T7	(5) (6) (8)	TO-209AC (TO-94) 
18 to 30															
ST103S02PF..0 ST103S04PF..0 ST103S06PF..0 ST103S08PF..0	200 400 600 800	165	105	85	2530	2650	3.0	200	1.73	300	10 to 20	0.195	T7	(5) (6) (8)	TO-209AC (TO-94) 
18 to 30															
ST173S06PF..0 ST173S08PF..0 ST173S10PF..0 ST173S12PF..0	600 800 1000 1200	275	175	85	3940	4120	3.0	200	2.07	600	18 to 30	0.105	T10	(5) (6) (8)	TO-209AB (TO-93) 
10 to 20															
ST183S02PF..0 ST183S04PF..0 ST183S06PF..0 ST183S08PF..0	200 400 600 800	306	195	85	4120	4310	3.0	200	1.80	600	10 to 20	0.105	T10	(5) (6) (8)	TO-209AB (TO-93) 
25 to 30															
ST203S06PF..0 ST203S08PF..0 ST203S10PF..0 ST203S12PF..0	600 800 1000 1200	320	205	85	4420	4630	3.0	200	1.72	600	25 to 30	0.105	T10	(5) (6) (8)	TO-209AB (TO-93) 
10 to 20															
ST223S02PF..0 ST223S04PF..0 ST223S06PF..0 ST223S08PF..0	200 400 600 800	345	220	85	4920	5150	3.0	200	1.58	600	10 to 20	0.105	T10	(5) (6) (8)	TO-209AB (TO-93) 
20 to 30															
ST303S02PF..0 ST303S04PF..0 ST303S06PF..0 ST303S08PF..0 ST303S10PF..0 ST303S12PF..0	200 400 600 800 1000 1200	471	300	65	6690	7000	3.0	200	2.16	1255	10 to 20	0.1	T11	(5) (6) (8)	TO-209AE (TO-118) 
20 to 30															
ST333S02PF..0 ST333S04PF..0 ST333S06PF..0 ST333S08PF..0	200 400 600 800	518	330	75	9520	9700	3.0	200	1.51	1040	12 to 25	0.1	T11	(5) (6) (8)	TO-209AE (TO-118) 
12 to 25															

(1) Insert the appropriate tq code (e.g., ST083S02PFN0), 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) Available with metric stud: to specify change "P" to "M" in part number (e.g., ST083S02MF..0).

(6) For faston terminals change "0" to "1" at the end of part number (e.g., ST083S02PF..1).

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

(8) VTM measured at Tj = Tj max.

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