

Part Number	VRRM VDRM (V)	I _{T(RMS)} (A)	I _{T(AV)} T _C		I _{TSM} (1)		V _{GT} (2) (V)	I _{GT} (2) (mA)	V _{TM} (3) (V)	t _q (μs)	R _{thJC} DC (°C/W)	Case Outline Number (8)	Notes	Case Style																																																		
			(A)	(°C)	50 Hz (A)	60 Hz (A)																																																										
ST063S02PCN ST063S02PCK ST063S04PCN ST063S04PCK ST063S06PCN ST063S06PCK ST063S06PCF ST063S08PCK ST063S08PCF ST063S10PCK ST063S10PCF ST063S12PCK ST063S12PCF	200 200 400 400 600 600 600 800 800 1000 1000 1200 1200	95	60	85	1200	1255	3.0	200	2.84	10	0.26	T5 B	(4) (6)	TO-209AC (TO-94)																																																		
ST073S06PFJ ST073S06PFF ST073S08PFJ ST073S08PFF ST073S10PFJ ST073S10PFF ST073S12PFJ ST073S12PFF	600 600 800 800 1000 1000 1200 1200									110					70	85	1260	1320	3.0	200	2.56	25 40 25 40 25 40 25 40	0.26	T5 B	(5) (6)																																							
ST083S02PCN ST083S02PCK ST083S04PCN ST083S04PCK ST083S06PCN ST083S06PCK	200 200 400 400 600 600																					125					80	85	1540	1610	3.0	200	2.15	10 20 10 20 10 20	0.23	T5 B	(4) (6)																											
S18CGF2A2 S18CGF2B2 S18CGF4A2 S18CGF4B2 S18CGF6A2 S18CGF6B2 S18CGF8A2 S18CGF8B2 S18CF10A2 S18CF10B2 S18CF12A2 S18CF12B2 S18CF14A2 S18CF14B2 S18CF16A2 S18CF16B2	200 200 400 400 600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600																																	175					80	85	2390 2390 2390 2390 2000 2000 2000 2000 1910 1910 1910 1910 1910 1910 1910 1910	2500 2500 2500 2500 2100 2100 2100 2100 2000 2000 2000 2000 2000 2000 2000 2000	2.5	150	1.65 1.65 1.65 1.65 1.92 1.92 1.92 1.92 2.06 2.06 2.06 2.06 2.07 2.07 2.07 2.07	0.25	T7 B	(5) (7) (13)	TO-208AD (TO-83)															
S18CGF2A0 S18CGF2B0 S18CGF4A0 S18CGF4B0 S18CGF6A0 S18CGF6B0 S18CGF8A0 S18CGF8B0 S18CF10A0 S18CF10B0 S18CF12A0 S18CF12B0 S18CF14A0 S18CF14B0 S18CF16A0 S18CF16B0	200 200 400 400 600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600																																								175	80			85		2390 2390 2390 2390 2000 2000 2000 2000 1910 1910 1910 1910 1910 1910 1910 1910	2500 2500 2500 2500 2100 2100 2100 2100 2000 2000 2000 2000 2000 2000 2000 2000		2.5	150	1.65 1.65 1.65 1.65 1.92 1.92 1.92 1.92 2.06 2.06 2.06 2.06 2.07 2.07 2.07 2.07	0.25	T5 C	(5) (7) (13)	TO-209AC (TO-94)								
ST093S06PFJ ST093S06PFF ST093S08PFJ ST093S08PFF ST093S10PFJ ST093S10PFF ST093S12PFJ ST093S12PFF	600 600 800 800 1000 1000 1200 1200																																														150	95				85		1600	1675		3.0	200	1.96	25 40 25 40 25 40 25 40	0.23	T5 B	(5) (6)	



(1) 100% VRRM reapplied @ T_j = T_j max. 125°C.
 (2) T_j = 25°C.
 (3) π x I_{T(AV)}, T_J = 25°C.
 (4) t_q: T_j = max rated, reapplied dV/dt = 20 V/μs.
 (5) t_q: T_j = max rated, reapplied dV/dt = 200 V/μs.

(6) Available with metric stud: to specify change "P" to "M" at the end of part number: (ST073S08MFJ).
 (7) Max. T_j = 125°C for standard types: High temperature types available with max T_j = 140°C for VRRM ≤ 1200 V. To specify insert "H" before voltage code: S18DGFH2B0.
 (8) For case outline drawing see page 154.

(13) U.S. Standard.