

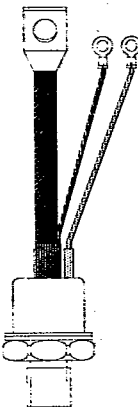
Inverter Type Thyristors

175 TO 370 AMPS RMS

International

IOR Rectifier

T-25-01

Part number	V _{RRM} V _{DRM} (V)	I _{T(RMS)} (A)	T _(AV) (A)	T _C (°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	Notes	Case style
					50Hz (A)	60Hz (A)								
ST103S02PCL ST103S02PCJ ST103S04PCL ST103S04PCJ ST103S06PCL ST103S06PCJ	200 200 400 400 600 600	175	105	85	1900	2000	3.0	200	1.73	15 25 15 25 15 25	0.23	T5 B	(4) (6)	TO-209AC (TO-94)
ST163S02PCN ST163S02PCK ST163S04PCN ST163S04PCK ST163S06PCN ST163S06PCK ST163S06PCF ST163S08PCK ST163S08PCF ST163S10PCK ST163S10PCF ST163S12PCK ST163S12PCF	200 200 400 400 600 600 600 800 800 1000 1000 1200 1200	250	160	85	2350	2460	3.0	200	2.30	10 20 10 20 10 20 40 20 40 20 40 20 40	0.12	T9 A	(4) (6)	TO-209AB (TO-93)
S23DGF2A0 S23DGF2B0 S23DGF4A0 S23DGF4B0 S23DGF6A0 S23DGF6B0 S23DGF8A0 S23DGF8B0 S23DF10A0 S23DF10B0 S23DF12A0 S23DF12B0 S23DF14A0 S23DF14B0 S23DF16A0 S23DF16B0	200 200 400 400 600 600 800 800 1000 1000 1200 1200 1400 1400 1600 1600	370	170 170 170 170 150 150 150 150 135 135 135 135 135 135 135 135	85	4950 4950 4950 4950 4400 4400 4400 4400 3800 3800 3800 3800 3800 3800 3800 3800	5200 5200 5200 5200 4600 4600 4600 4600 4000 4000 4000 4000 4000 4000 4000 4000	2.5	150	1.60 1.60 1.60 1.60 1.86 1.86 1.86 1.86 1.97 1.97 1.97 1.97 1.99 1.99 1.99 1.99	8 10 8 10 12 15 12 15 16 20 16 20 30 40 30 40	0.14	T9 B	(7) (8) (9) (13)	
ST173S06PFJ ST173S06PFF ST173S08PFJ ST173S08PFF ST173S10PFJ ST173S10PFF ST173S12PFJ ST173S12PFF	600 600 800 800 1000 1000 1200 1200											275	175	
ST183S02PCN ST183S02PCK ST183S04PCN ST183S04PCK ST183S06PCN ST183S06PCK	200 200 400 400 600 600	285	183	85	3000	3140	3.0	200	1.95	10 20 10 20 10 20	0.12		(4) (6)	
ST203S06PFJ ST203S06PFF ST203S08PFJ ST203S08PFF ST203S10PFJ ST203S10PFF ST203S12PFJ ST203S12PFF	600 600 800 800 1000 1000 1200 1200	314	205	85	3100	3245	3.0	200	1.72	25 40 25 40 25 40 25 40	0.12		(5) (6)	
ST223S02PCL ST223S02PCJ ST223S04PCL ST223S04PCJ ST223S06PCL ST223S06PCJ	200 200 400 400 600 600	345	220	85	3900	4080	3.0	200	1.58	15 25 15 25 15 25	0.12		(4) (6)	

(1) 100% V_{BBM} reapplied $T_J = 125^\circ\text{C}$.

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

(3) $\pi \times I_{T(AV)} @ T_J = 25^\circ C$

(4) $T_0: T_1 = \text{Max. rated, reapplied } dv/dt = 20 \text{ V}/\mu\text{s.}$

(5) T_a : T_a = Max. rated, reapplied $dv/dt = 200 \text{ V}/\mu\text{s}$.

(6) Available with metric stud; to specify change "P" to "M" at the end of part number: (ST173S08MFJ)

(7) Max. $T_J = 125^\circ\text{C}$ for standard types. High temperature types available with max. $T_J = 140^\circ\text{C}$ for $V_{RRM} \leq 1200\text{V}$. To specify insert "H" before voltage code: S23DGFH2B0.

(8) Max. $T_1 = 125^\circ\text{C}$.

(9) Available with flat base, to specify add "F" to part number: S23DGF2A0F.

(13) U.S. Standard.

