



Phase Control Thyristors

25 TO 80 AMPS RMS

International
IOR Rectifier

T-25-01

Part number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	T_C (°C)	$I_{TSM}(1)$		V_{GT} (2) (V)	I_{GT} (2) (mA)	V_{TM} (3) (V)	dv/dt (4) (V/ μ s)	R_{thJC} DC (°C/W)	Case Outline Number	Notes	Case style
					50Hz (A)	60Hz (A)								
10RIA10 10RIA20 10RIA40 10RIA60 10RIA80 10RIA100 10RIA120	100 200 400 600 800 1000 1200	25	10	85	190	200	2.0	60	1.75	300	1.85	T1	(5) (6)	TO208AA (TO-48) 
2N681 2N682 2N683 2N684 2N685 2N686 2N687 2N688 2N689 2N690 2N691 2N692	25 50 100 150 200 250 300 400 500 600 700 800	25	16	65	145	150	2.0	40	2.00	250	1.50	T1	(5) (6)	
16RIA10 16RIA20 16RIA40 16RIA60 16RIA80 16RIA100 16RIA120	100 200 400 600 800 1000 1200	35	16	85	285	300	2.0	60	1.75	300	1.15	T1	(5) (6)	
2N5204 2N5205 2N5206 2N5207	600 800 1000 1200	35	22	40	285	300	2.0	40	2.30	250	1.50	T1	(5) (6)	
22RIA10 22RIA20 22RIA40 22RIA60 22RIA80 22RIA100 22RIA120	100 200 400 600 800 1000 1200	35	22	85	335	355	2.0	60	1.70	300	0.86	T1	(5) (6)	
25RIA10 25RIA20 25RIA40 25RIA60 25RIA80 25RIA100 25RIA120	100 200 400 600 800 1000 1200	40	25	85	350	370	2.0	60	1.70	300	0.75	T1	(5) (6)	
50RIA10 50RIA20 50RIA40 50RIA60 50RIA80 50RIA100 50RIA120	100 200 400 600 800 1000 1200	80	50	94	1200	1255	2.5	100	1.60	500	0.35	T3	(7) (6)	TO-208AC (TO-65) 

(1) 100% V_{RRM} reapplied @ $T_J = T_J \text{ max} = 125^\circ\text{C}$.(2) $T_J = 25^\circ\text{C}$.(3) $\pi \times I_{T(AV)}$, $T_J = 25^\circ\text{C}$.(4) Exponential to $0.67 V_{DRM}$; $T_J = 125^\circ\text{C}$.

(5) Leaded version available, to specify add "1" to second digit in part number (e.g., 11RIA10, 17RIA10, 23RIA10), outline T2.

(6) Available with metric stud; to specify add "M" to the end of part number (e.g., 25RIA120M, 50RIA120M).

(7) Leaded version available, to specify add "1" to second digit in part number (e.g., 51RIA10), outline T4.