

# Thyristors

## Phase Control Type

110–125 Amps

**International**  
**IOR Rectifier**

Part Number	V <sub>RRM</sub> V <sub>DRM</sub> (V)	I <sub>T(RMS)</sub> (A)	I <sub>T(AV)</sub> @ T <sub>C</sub>		I <sub>TSM</sub> (1)		V <sub>GT</sub> (2) (V)	I <sub>GT</sub> (2) (mA)	V <sub>TM</sub> @ I <sub>TM</sub>		dv/dt (4) (V/μs)	R <sub>thJC</sub> DC (°C/W)	Case Outline Number (15)	Notes	Case Style																																																																						
			(A)	(°C)	50 Hz (A)	60 Hz (A)			(V)	(A)																																																																											
2N1792 2N1793 2N1794 2N1795 2N1795 2N1797 2N1798 2N1799 2N1800 2N1801 2N1802 2N1803 2N1804	50 100 150 200 250 300 400 500 600 700 800 900 1000	110	70	65	955	1000	2.5	70	1.85	220	200	0.4	T3	(8) (16)	TO-208AD (TO-83)																																																																						
2N3091 2N3092 2N3093 2N3094 2N3095 2N3096 2N3097 2N3098	600 700 800 900 1000 1100 1200 1300															110	70	62	955	1000	2.5	110	1.85	220	200	0.4	T4		TO-209AC (TO-94)																																																								
2N1909 2N1910 2N1911 2N1912 2N1913 2N1914 2N1915 2N1916 2N1805 2N1806 2N1807	25 50 100 150 200 250 300 400 500 600 700																													110	70	62	955	1000	2.5	70	1.85	220	200	0.4	T4																																												
70RIA10 70RIA20 70RIA40 70RIA60 70RIA80 70RIA100 70RIA120	100 200 400 600 800 1000 1200																																											110	70	80	1200	1255	2.5	100	1.80	220	500	0.35		(6) (7) (9) (16)																													
2N2023 2N2024 2N2025 2N2026 2N2027 2N2028 2N2029 2N2030	25 50 100 150 200 250 300 400																																																									110	70	85	955	1000	2.0	70	1.90	220	50	0.4		(8) (16)															
80RIA10 80RIA20 80RIA40 80RIA60 80RIA80 80RIA100 80RIA120	100 200 400 600 800 1000 1200																																																																							125	80	91	1600	1700	2.5	120	1.40	250	500	0.35		(6) (7) (9) (16)	



(1) @ T<sub>j</sub> = T<sub>j</sub> max. 125°C and 100% V<sub>RRM</sub> reapplied.

(2) T<sub>j</sub> = 25°C.

(4) Linear to 0.8 V<sub>DRM</sub>, T<sub>j</sub> = 125°C.

(6) For faston terminals add "1" to the second or third digit in part number (e.g., 71RIA40).

(7) Flag terminal available, to specify add "2" to second or third digit in part number (e.g., 72RIA10).

(8) dv/dt: exponential to 100% V<sub>DRM</sub>, T<sub>j</sub> = 125°C.

(9) dv/dt: exponential to 0.67 V<sub>DRM</sub>, T<sub>j</sub> = 125°C.

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

(16) V<sub>TM</sub> measured at T<sub>j</sub> = 25°C.