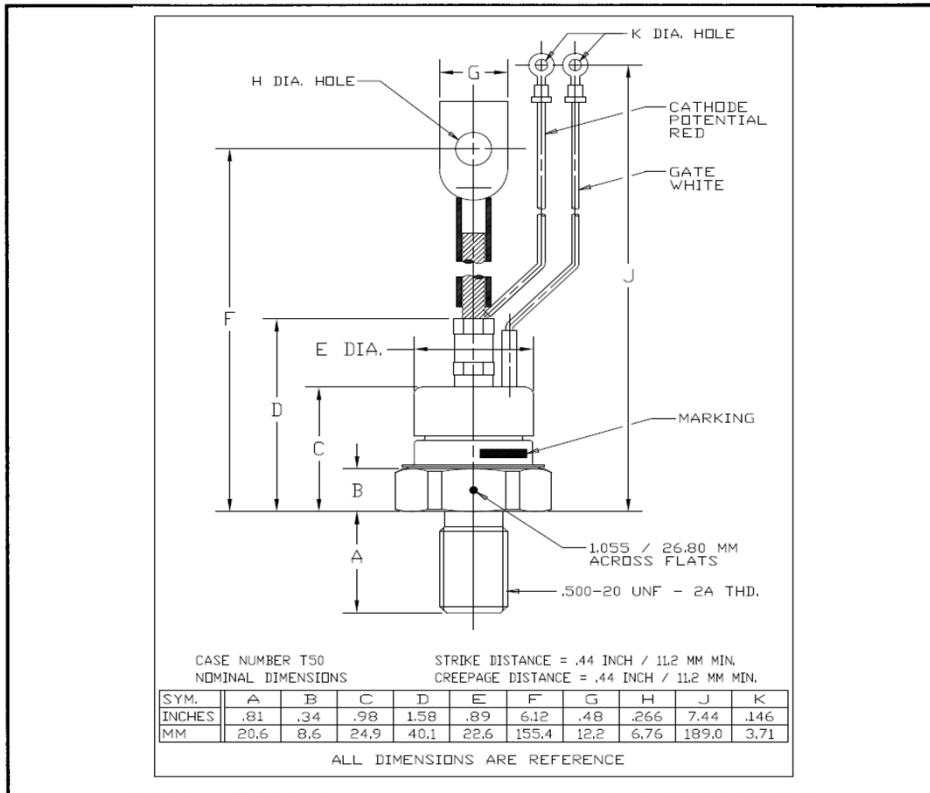


Powerex, Inc., 200 Hillis Street, Youngwood, Pennsylvania 15697-1800 (412) 925-7272
Powerex, Europe, S.A. 428 Avenue G. Durand, BP107, 72003 Le Mans, France (43) 41.14.14

Phase Control SCR
70 Amperes Average (110 RMS)
600 Volts



2N1909-2N1792 (Outline Drawing)



2N1909-2N1792
Phase Control SCR
70 Amperes Average (110 RMS),
600 Volts

Ordering Information:

Select the complete six digit part number you desire from the table, i.e. 2N1800 is a 600 Volt, 70 Ampere Phase Control SCR.

Type	Voltage		Current
	V_{DRM} V_{RRM}		
2N1909	25		70
2N1910 2N1792	50		
2N1911 2N1793	100		
2N1912 2N1794	150		
2N1913 2N1795	200		
2N1914 2N1796	250		
2N1915 2N1797	300		
2N1916 2N1798	400		
2N1805 2N1799	500		
2N1806 2N1800	600		

Features:

- ☐ Center Fired, di/namic Gate
- ☐ All Diffused Design
- ☐ Low Gate Current
- ☐ Compression Bonded Encapsulation
- ☐ Low V_{TM}

Applications:

- ☐ Phase Control
- ☐ Power Supplies
- ☐ Motor Control
- ☐ Light Dimmers



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2N1909-2N1792

Phase Control SCR

70 Amperes Average (110 RMS), 600 Volts

Absolute Maximum Ratings

Characteristics	Symbol	2N1909 - 2N1792	Units
RMS Forward Current	$I_{T(rms)}$	110	Amperes
Average Forward Current	$I_{T(av)}$	70	Amperes
One-half Cycle Surge Current	I_{TSM}	1000	Amperes
Minimum Rate of Rise of On-State Current (Non-Repetitive)	di/dt	800	A/ μ sec
I^2t (for Fusing), ≥ 8.3 milliseconds	I^2t	4000	A ² sec
Storage Temperature	T_{stg}	-40 to +150	°C
Operating Temperature	T_j	-40 to +125	°C
Mounting Torque (Lubricated)		130	in-lb

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2N1909-2N1792

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