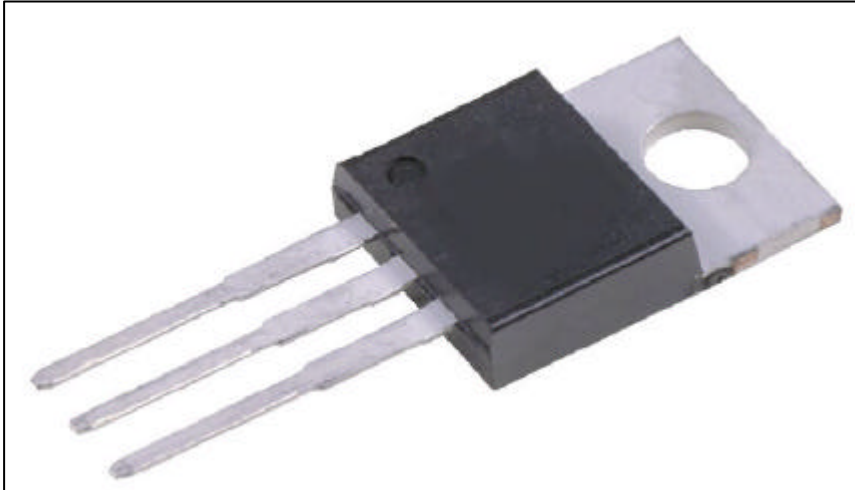


Range of SCR thyristors



Introducing the Semitron range of thyristor SCR, half wave, uni-directional, gate controlled rectifiers.

Ratings are available from 8 amps to 25 amps and 400 to 100 watts, packaged in TO-220.

All devices feature glass passivated junctions for reliability and stability.

Custom parameters are available; please contact the factory for more information.

Semitron Industries Limited, Hargreaves Road, Groundwell Industrial Estate,
Swindon SN25 5BF, UK

Telephone: 01793 720400 Fax: 01793 720401 Web: www.semitron.com

Part No	I _T (RMS)	I _T (AV)	V _{DRM} & V _{RRM}	I _{GT}	I _{DRM} & I _{RRM}		V _{TM}
	Maximum RMS Current	Maximum On-State Current	Repetitive Peak Off- State Forward & Reverse Voltage	Max DC Gate Trigger Current	Peak Off-State Forward & Reverse Current at V _{DRM} & V _{RRM}		Peak On- State Voltage at V _{DRM} & V _{RRM}
					T _c = 25°C	T _c = 125°C	
S0804	Amps 8	Amps 5	Volts 400	mA 15	10μA	5mA	1.6
S0806	8	5	600	15	10μA	5mA	1.6
S0808	8	5	800	15	10μA	5mA	1.6
S0810	8	5	1000	15	10μA	5mA	1.6
S1204	12	7.5	400	15	10μA	5mA	1.6
S1206	12	7.5	600	15	10μA	5mA	1.6
S1208	12	7.5	800	15	10μA	5mA	1.6
S1210	12	7.5	1000	15	10μA	5mA	1.6
S1604	16	10	400	25	10μA	5mA	1.6
S1606	16	10	600	25	10μA	5mA	1.6
S1608	16	10	800	25	10μA	5mA	1.6
S1610	16	10	1000	25	10μA	5mA	1.6
S2504	25	16	400	35	10μA	5mA	1.6
S2506	25	16	600	35	10μA	5mA	1.6
S2508	25	16	800	35	10μA	5mA	1.6
S2510	25	16	1000	35	10μA	5mA	1.6

Part No	I _{TSM}	I ² t	I _H	I _L	dv/dt	V _{GT}	V _{RG}	V _{GD}	P _{GM(AV)}	di/dt
	Non repetitive surge current	Max on-state current	Max DC holding current	Max latching current	Max off state rate of rise of Voltage	Max must operate gate Voltage	Max reverse gate Voltage	Min operating gate Voltage	Max reverse gate power	Critical rate of rise of on-state Current
S0804	100	5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S0806	100	5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S0808	100	5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S0810	100	5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S1204	150	7.5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S1206	150	7.5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S1208	150	7.5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S1210	150	7.5	30	60	500	1.5v	5v	0.2v	0.5w	100Aμs
S1604	200	10	40	80	500	1.5v	5v	0.2v	0.5w	100Aμs
S1606	200	10	40	80	500	1.5v	5v	0.2v	0.5w	100Aμs
S1608	200	10	40	80	500	1.5v	5v	0.2v	0.5w	100Aμs
S1610	200	10	40	80	500	1.5v	5v	0.2v	0.5w	100Aμs
S2504	300	16	50	100	500	1.5v	5v	0.2v	0.5w	100Aμs
S2506	300	16	50	100	500	1.5v	5v	0.2v	0.5w	100Aμs
S2508	300	16	50	100	500	1.5v	5v	0.2v	0.5w	100Aμs
S2510	300	16	50	100	500	1.5v	5v	0.2v	0.5w	100Aμs