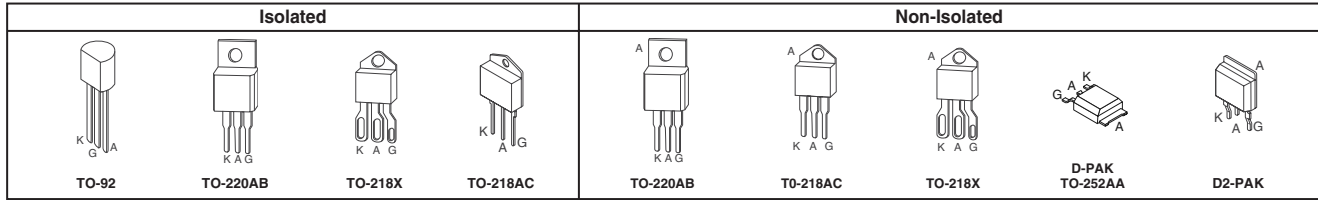


Sensitive Gate (0.8-10 Amps) and Non-Sensitive Gate (1-70 Amps) SCRs

Thyristor SCR semi-conductors are half-wave, unidirectional, gate-controlled rectifiers. Both Sensitive Gate and Non-Sensitive Gate SCRs in a choice of 3 different electrically isolated packages and 5 non-isolated packages. Electrically Isolated Packages: Isolate the case or tab internally to allow the use of low cost assembly and convenient packaging techniques. Teccor offers electrical isolation in the TO-92, TO-220AB, and TO-218 type packages. Glass Passivation: SCRs feature glass passivated device junctions to ensure long term device reliability and parameter stability. Glass offers a rugged, reliable barrier against junction contamination.

Sensitive Gate Type: The sensitive SCR semiconductors complement the line of power SCRs.
Features: • Current Ratings: 0.8-10 Amps • Voltage Ratings: 30-600 Volts • Gate Sensitivities: 12-500 microamps • Surge Current: up to 100 Amps

Non-Sensitive Gate Type: The thyristor SCR semiconductors complement the line of sensitive gate SCRs.
Features: • Current Ratings: 1-70 Amps • Voltage Ratings: 100-800 Volts • Gate Sensitivities: 10-50 milliamps • Surge Current: up to 950 Amps



IT RMS (A)	VDRM & VRRM (V)	Package	IGT (mA)		IDRM & IRRM @25°C (mA)	VTM @25°C (V)	VGT @25°C (V)	PG(AV) (W)	t _{gt} (µsec.)	Digi-Key Part No.	Price Each			Tape and Reel											
			Min.	Max.							1	10	100	Qty.	Pricing										
Sensitive Gate — Isolated																									
0.8	200 400 600	TO-92	—	.200	.001† .001 .001 .002	1.7	0.8	0.1	2.2 3.5 3.5 3.5	2N5064-ND♦	.41	.37	.33	—	—										
										EC103B-ND♦	.34	.31	.28	—	—										
										EC103D-ND♦	.39	.35	.31	—	—										
										EC103M-ND♦	.46	.41	.37	—	—										
0.8	600	TO-92	—	0.012	.002	1.7	0.8	0.1	2.2	EC103M1-ND♦	.56	.50	.45	—	—										
										TCR22-4-ND♦	.41	.37	.33	—	—										
1.5	200 400 600	TO-92	—	.200	.001 .001 .001 .002	1.5	0.8	0.1	2.2	TCR22-6-ND♦	.46	.41	.37	—	—										
										TCR22-8-ND♦	.56	.50	.45	—	—										
										S4006L2-ND♦	1.04	.93	.84	—	—										
										S2008L2-ND♦	1.04	.93	.84	—	—										
8.0	200 400	TO-220AB	—	.200	.005	1.6	0.8	0.1	4.0	S4008L2-ND♦	1.14	1.02	.92	—	—										
										S4010L2-ND♦	1.24	1.10	.99	—	—										
10.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010L2-ND♦	1.24	1.10	.99	—	—										
										Sensitive Gate — Non-Isolated															
										4.0	200 400	TO-252AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004DS2CT-ND†	1.09	.90	.76	2,500	476.00/M
																				S4004DS2CT-ND†	1.17	.97	.82	2,500	511.70/M
6.0	200 400	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006DS2CT-ND†	1.13	.94	.79	2,500	494.70/M										
										S6006DS2CT-ND†	1.51	1.25	1.05	2,500	659.60/M										
8.0	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008DS2CT-ND†	1.22	1.00	.85	2,500	530.40/M										
Non-Sensitive Gate — Isolated																									
1.0	200 400 600	TO-92	1	10	.01	1.6	1.5	0.3	2.0	S201E-ND♦	.53	.48	.43	—	—										
										S401E-ND♦	.56	.50	.45	—	—										
										S601E-ND♦	.61	.54	.49	—	—										
6.0	200 400 600	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2006L-ND♦	.92	.82	.74	—	—										
										S4006L-ND♦	.97	.87	.78	—	—										
										S6006L-ND♦	1.04	.93	.84	—	—										
8.0	200 400 600	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008L-ND♦	1.04	.93	.84	—	—										
										S4008L-ND♦	1.09	.97	.88	—	—										
										S6008L-ND♦	1.16	1.04	.94	—	—										
10.0	200 400 600 800	TO-220AB	1	15	.01 .01 .01 .02	1.6	1.5	0.5	2.0	S2010L-ND♦	1.14	1.02	.92	—	—										
										S4010L-ND♦	1.21	1.08	.98	—	—										
										S6010L-ND♦	1.28	1.14	1.03	—	—										
15.0	400 600 800	TO-220AB	1	30	.01 .01 .02	1.6	1.5	0.6	2.0	S4015L-ND♦	1.31	1.17	1.05	—	—										
										S6015L-ND♦	1.38	1.23	1.11	—	—										
										S8015L-ND♦	1.48	1.32	1.19	—	—										
20.0	200 400 600 800	TO-220AB	1	30	.01 .01 .01 .02	1.6	1.5	0.6	2.0	S2020L-ND♦	1.38	1.23	1.11	—	—										
										S4020L-ND♦	1.48	1.32	1.19	—	—										
										S6020L-ND♦	1.58	1.40	1.26	—	—										
25.0	200 400 600 800	TO-220AB	1	35	.01 .01 .01 .02	1.6	1.5	0.8	2.0	S8020L-ND♦	1.67	1.49	1.34	—	—										
										S2025L-ND♦	1.62	1.45	1.30	—	—										
										S4025L-ND♦	1.74	1.55	1.40	—	—										
35.0	200 400 600 800	TO-218AC	5	40	.01 .01 .01 .02	1.8	1.5	0.8	2.0	S6025L-ND♦	1.84	1.64	1.48	—	—										
										S8025L-ND♦	1.96	1.75	1.57	—	—										
										S2035KTP-ND♦	3.54	3.15	2.84	—	—										
65.0	200 400 600 800	TO-218X	5	50	.01 .01 .02	1.8	1.5	0.8	2.0	S4035KTP-ND♦	3.78	3.36	3.03	—	—										
										S6035KTP-ND♦	4.02	3.58	3.22	—	—										
										S8035KTP-ND♦	4.26	3.79	3.42	—	—										
65.0	200 400 600 800	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S2065JTP-ND♦	5.79	5.15	4.64	—	—										
										S4065JTP-ND♦	6.20	5.52	4.97	—	—										
										S6065JTP-ND♦	6.61	5.88	5.30	—	—										
65.0	200 400 600 800	TO-218AC	5	50	.02	1.8	2.0	1.0	2.5	S2065KTP-ND♦	5.67	5.04	4.54	—	—										
										S4065KTP-ND♦	6.08	5.41	4.87	—	—										
										S6065KTP-ND♦	6.86	6.10	5.49	—	—										
Non-Sensitive Gate — Non-Isolated																									
6.0	200 400	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2006DCT-ND†	1.17	.97	.82	2,500	511.70/M										
										S4006DCT-ND†	1.26	1.04	.88	2,500	550.80/M										
8.0	200 400 600	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008R-ND♦	.92	.82	.74	—	—										
										S4008R-ND♦	.99	.89	.80	—	—										
										S6008R-ND♦	1.07	.95	.86	—	—										
12.0	400 800	TO-220AB	1	20	.01 .01	1.6	1.5	0.5	2.0	S4012R-ND♦	1.14	1.02	.92	—	—										
										S8012DCT-ND†	1.85	1.52	1.28	2,500	805.80/M										
16.0	400 600 800	D2-PAK	1	30	.01 .01 .02	1.6	1.5	0.6	2.0	S4016NRPCT-ND†	2.39	1.97	1.66	500	521.05										
										S6016NRPCT-ND†	2.52	2.07	1.75	500	549.10										
										S8016NRPCT-ND†	2.69	2.21	1.87	500	585.65										
25.0	600 800	TO-220AB	1	35	.01 .02	1.6	1.5	0.8	2.0	S6025R-ND♦	1.67	1.49	1.34	—	—										
										S8025R-ND♦	1.77	1.58	1.42	—	—										
										S6025NRPCT-ND†	3.28	2.69	2.27	500	714.00										
40.0	400 800 1000	TO-220AB	5	40	.01 .02 .03	1.8	1.5	0.8	2.5	S8025NRPCT-ND†	3.49	2.87	2.42	—	—										
										S4040R-ND♦	2.64	2.35	2.12	—	—										
										S8040R-ND♦	3.00	2.67	2.41	—	—										
55.0	200 400 600 800	TO-218AC	5	40	.02 .01	1.8	1.5	0.8	2.5	SK040R-ND♦	3.17	2.83	2.54	—	—										
										S8055MTP-ND♦	4.17	3.71	3.34	—	—										
										S2055WTP-ND♦	3.90	3.47	3.12	—	—										
70.0	200 400 600 800	TO-220AB	5	40	.01 .01 .02	1.8	1.5	0.8	2.5	S2055R-ND♦	2.59	2.31	2.08	—	—										
										S6055R-ND♦	2.96	2.63	2.37	—	—										
										S8055R-ND♦	3.15	2.80	2.52	—	—										
70.0	600	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S6070WTP-ND♦	6.13	5.45	4.91	—	—										

♦ RoHS Compliant † .05mA@125°C ‡ Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

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