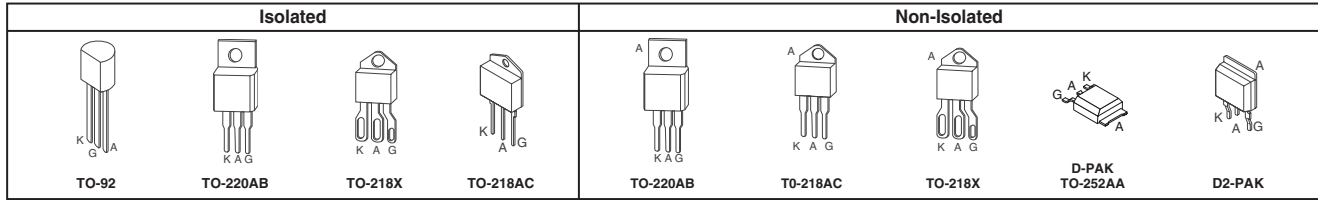


Sensitive Gate (0.8-10 Amps) and Non-Sensitive Gate (1-70 Amps) SCRs

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 Pricing	
			Min.	Max.							1	10	100	Qty.	Pricing
Sensitive Gate — Isolated															
0.8	200	TO-92	—	.200	.001	1.7	0.8	0.1	2.2	2N5064-ND	.60	.47	.40	—	—
	400									EC103B-ND	.49	.39	.33	—	—
	600									EC103D-ND	.56	.44	.38	—	—
	600									EC103M-ND	.67	.53	.45	—	—
0.8	600	TO-92	—	0.012	.002	1.7	0.8	0.1	2.0	EC103M1-ND	.81	.63	.55	—	—
	600									TCR22-4-ND	.60	.47	.40	—	—
1.5	200	TO-92	—	.200	.001	1.5	0.8	0.1	2.2	TCR22-6-ND	.67	.53	.45	—	—
	400									TCR22-8-ND	.81	.63	.55	—	—
	600									S4006LS2-ND	1.34	1.15	.98	—	—
6.0	200	TO-220AB	—	.200	.005	1.6	0.8	0.1	4.0	S2008LS2-ND	1.34	1.15	.98	—	—
	400									S4008LS2-ND	1.38	1.22	1.03	—	—
8.0	200	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010LS2-ND	1.50	1.32	1.12	—	—
	400									S4010LS2-ND	1.50	1.32	1.12	—	—
Sensitive Gate — Non-Isolated															
4.0	200	TO-252AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004DS2CT-ND†	.81	.70	.59	2,500	355.74/M
	400									S4004DS2CT-ND†	.87	.75	.64	2,500	382.42/M
6.0	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006DS2CT-ND†	.84	.72	.62	2,500	369.72/M
	400									S6006DS2CT-ND†	1.13	.96	.82	2,500	492.96/M
8.0	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008DS2CT-ND†	.91	.77	.66	2,500	396.40/M
	400									S2008DS2CT-ND†	.91	.77	.66	2,500	396.40/M
Non-Sensitive Gate — Isolated															
1.0	200	TO-92	1	10	.01	1.6	1.5	0.3	2.0	S201E-ND	.78	.61	.52	—	—
	400									S401E-ND	.81	.63	.55	—	—
	600									S601E-ND	.78	.67	.57	—	—
6.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2006L-ND	1.19	1.02	.87	—	—
	400									S4006L-ND	1.25	1.07	.91	—	—
	600									S6006L-ND	1.34	1.15	.98	—	—
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008L-ND	1.34	1.15	.98	—	—
	400									S4008L-ND	1.41	1.20	1.02	—	—
	600									S6008L-ND	1.41	1.24	1.06	—	—
10.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2010L-ND	1.38	1.22	1.03	—	—
	400									S4010L-ND	1.47	1.30	1.10	—	—
	600									S6010L-ND	1.55	1.37	1.16	—	—
15.0	200	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S8010L-ND	1.67	1.47	1.25	—	—
	400									S4015L-ND	1.58	1.40	1.19	—	—
	600									S6015L-ND	1.67	1.47	1.25	—	—
20.0	200	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S8015L-ND	1.79	1.58	1.34	—	—
	400									S2020L-ND	1.67	1.47	1.25	—	—
	600									S4020L-ND	1.79	1.58	1.34	—	—
25.0	200	TO-220AB	1	35	.01	1.6	1.5	0.8	2.0	S6020L-ND	1.91	1.68	1.43	—	—
	400									S8020L-ND	2.03	1.78	1.52	—	—
	600									S2025L-ND	1.97	1.73	1.47	—	—
35.0	200	TO-218AC	5	40	.01	1.8	1.5	0.8	2.0	S4025L-ND	2.11	1.86	1.58	—	—
	400									S6025L-ND	2.23	1.96	1.67	—	—
	600									S8025L-ND	2.37	2.09	1.78	—	—
65.0	200	TO-218X	5	50	.01	1.8	1.5	0.8	2.0	S2035KTP-ND	4.27	3.54	2.75	—	—
	400									S4035KTP-ND	4.27	3.79	2.93	—	—
	600									S6035KTP-ND	4.54	4.03	3.12	—	—
80.0	200	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S8035KTP-ND	4.81	4.27	3.31	—	—
	400									S2065JTP-ND	5.98	5.42	4.30	—	—
	600									S4065JTP-ND	6.40	5.81	4.61	—	—
80.0	200	TO-218AC	5	50	.02	1.8	2.0	1.0	2.5	S6065JTP-ND	6.82	6.19	4.91	—	—
	400									S2065KTP-ND	5.85	5.31	4.21	—	—
	600									S4065KTP-ND	6.28	5.70	4.52	—	—
80.0	200	TO-218	5	50	.02	1.8	2.0	1.0	2.5	S8065KTP-ND	7.08	6.42	5.09	—	—
	400									S2065KTP-ND	7.08	6.42	5.09	—	—
	600									S4065KTP-ND	7.08	6.42	5.09	—	—
Non-Sensitive Gate — Non-Isolated															
6.0	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2006DCT-ND†	.87	.75	.64	2,500	382.42/M
	400									S4006DCT-ND†	.94	.80	.69	2,500	411.65/M
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008R-ND	1.19	1.02	.87	—	—
	400									S4008R-ND	1.28	1.09	.93	—	—
	600									S6008R-ND	1.38	1.17	1.00	—	—
12.0	200	TO-220AB	1	20	.01	1.6	1.5	0.5	2.0	S4012R-ND	1.38	1.22	1.03	—	—
	400									S8012DCT-ND†	1.38	1.17	1.00	2,500	602.22/M
16.0	200	TO-252AA	1	20	.01	1.6	1.5	0.5	2.0	S4016NRPCT-ND†	1.67	1.47	1.25	500	511.79
	400									S6016NRPCT-ND†	1.76	1.55	1.32	500	539.35
	600									S8016NRPCT-ND†	1.87	1.66	1.41	500	575.25
25.0	200	TO-220AB	1	35	.01	1.6	1.5	0.8	2.0	S6025R-ND	2.03	1.78	1.52	—	—
	400									S8025R-ND	2.14	1.89	1.60	—	—
	600									S6025NRPCT-ND†	2.29	2.02	1.71	500	701.32
40.0	200	D2-PAK	1	35	.02	1.6	1.5	0.8	2.0	S8025NRPCT-ND†	2.43	2.15	1.82	—	—
	400									S4040R-ND	2.98	2.64	2.05	—	—
	600									S8040R-ND	3.39	3.01	2.33	—	—
55.0	200	TO-220AB	5	40	.02	1.8	1.5	0.8	2.5	SK040R-ND	3.59	3.18	2.46	—	—
	400									S8055MTP-ND	4.70	4.17	3.23	—	—
	600									S2055WTP-ND	4.41	3.90	3.02	—	—
70.0	200	TO-218X	5	40	.01	1.8	1.5	0.8	2.5	S2055R-ND	2.93	2.60	2.01	—	—
	400									S6055R-ND	3.34	2.96	2.29	—	—
	600									S8055R-ND	3.56	3.16	2.44	—	—
70.0	200	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S6070WTP-ND	6.33	5.74	4.55	—	—
	400									S6070WTP-ND	6.33	5.74	4.55	—	—

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