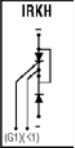
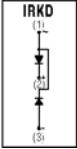
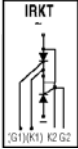
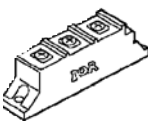


Thyristor Modules

Standard with auxiliary cathode. Devices without auxiliary cathode also available; contact your local Allied sales branch.

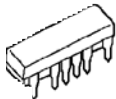
Mfr.'s Type	V <sub>RRM</sub> /V <sub>ORM</sub> (V)	I <sub>GT</sub> Max. @ 25°C mA	dv/dt (V/μs)	I <sub>TSM</sub> @ 60 Hz (A)	@ T <sub>C</sub> (°C)	I <sub>IAV</sub> Min. (A)	I <sub>T(RMS)</sub> (A)
IRKT71/06	600	120	500	1470	85	70	155.0
IRKD56/08	800	100	500	525	85	25	55.5
IRKT41/10	1000	100	500	750	85	40	89.0
IRKH71/10	1000	120	500	1470	85	70	155.0
IRKT26/12	1200	100	500	525	85	25	55.5
IRKT56/12	1200	100	500	1150	85	55	122.0
IRKH91/12	1200	120	500	1570	85	90	200.0



Phase Control Discrete SCRs

Mfr.'s Type	V <sub>RRM</sub> (V)	I <sub>T(RMS)</sub> (A)	I <sub>IAV</sub> (A)	@ TC (°C)	I <sub>TSM</sub> @ 50 Hz (A)	I <sub>TSM</sub> @ 60 Hz (A)	V <sub>GT</sub> (V)	I <sub>GT</sub> (A)	V <sub>TM</sub> (V)	@ I <sub>TM</sub> (A)	Package
50RIA10	100	80	50	94	1200	1255.0	2.50	100.00	1.60	157	TO-65
16RIA40	400	35	16	85	285	300.0	2.00	60.00	1.75	50	TO-48
80RIA40	400	125	80	85	1600	1675.0	2.50	120.00	1.40	250	TO-94
16RIA60	600	35	16	85	285	300.0	2.00	60.00	1.75	50	TO-48
22RIA60	600	35	22	85	335	355.0	2.00	60.00	1.70	70	TO-48
2N1800	600	70	65	955	1000	2.5	70.00	1.85	220.00	200	TO-83
2N690	600	25	16	65	145	150.0	2.00	40.00	2.00	—	TO-48
50RIA60	800	80	50	94	1200	1255.0	2.50	100.00	1.60	157	TO-65
16RIA80	800	35	16	85	285	300.0	2.00	60.00	1.75	50	TO-48
16TTS08S	800	16	10	98	200	170.0	2.00	60.00	1.40	10	D <sup>2</sup> -PAK (SMD-220)
25TTS08FP	800	25	16	85	350	300.0	2.00	45.00	1.25	16	TO-220 FULLPAK
2N692	800	25	16	65	145	150.0	2.00	40.00	2.00	—	TO-48
80RIA80	800	125	80	85	1600	1675.0	2.50	120.00	1.40	250	TO-94
ST230C08C0	800	780	410	55	4800	5000.0	3.00	150.00	1.69	880	A-PUK (TO-200AB)
ST330S08P0	800	520	330	75	7570	7920.0	3.00	200.00	1.51	1040	TO-118C
16RIA100	1000	35	16	85	285	300.0	2.00	60.00	1.75	50	TO-48
2N5206	1000	35	22	40	285	300.0	2.00	40.00	2.30	—	TO-48
22RIA120	1200	35	22	85	335	355.0	2.00	60.00	1.70	70	TO-48
2N5207	1200	35	22	40	285	300.0	2.00	40.00	2.30	—	TO-48
50RIA120	1200	80	50	94	1200	1255.0	2.50	100.00	1.60	157	TO-65
80RIA120	1200	125	80	85	1600	1675.0	2.50	120.00	1.40	250	TO-94
ST1230C12K0	1200	3200	1745	55	28000	29500.0	3.00	200.00	1.62	4000	K-PUK
ST230C12C0	1200	780	410	55	4800	5000.0	3.00	150.00	1.69	880	A-PUK (TO-200AB)
ST230S12P0V	1200	361	230	85	4800	5000.0	3.00	150.00	1.55	720	TO-93
ST330S12P0	1200	520	330	75	7570	7920.0	3.00	200.00	1.51	1040	TO-118C
ST700C12L0	1200	1857	910	55	13200	13800.0	3.00	200.00	1.80	2000	B-PUK (TO-200AC)
ST230C14C0	1400	780	410	55	4800	5000.0	3.00	150.00	1.69	880	A-PUK (TO-200AB)
ST110S16P0	1600	175	110	90	2270	2380.0	3.00	150.00	1.52	350	TO-94C
ST1230C16K0	1600	3200	1745	55	28000	29500.0	3.00	200.00	1.62	4000	K-PUK
ST230C16C0	1600	780	410	55	4800	5000.0	3.00	150.00	1.69	880	A-PUK (TO-200AB)
ST230S16P0	1600	361	230	85	4800	5000.0	3.00	150.00	1.55	720	TO-93C
ST330C16C0	1600	1420	720	55	7570	7920.0	3.00	200.00	1.96	1800	E-PUK (TO-200AB)
ST330S16P0	1600	520	330	75	7570	7920.0	3.00	200.00	1.51	1040	TO-118C
ST700C18L0	1800	1857	910	55	13200	13800.0	3.00	200.00	1.80	2000	B-PUK (TO-200AC)
ST1200C20K0	2000	3080	1650	55	25700	26900.0	3.00	200.00	1.73	4000	K-PUK
ST180S20P0	2000	314	200	85	4200	4400.0	3.00	150.00	1.75	570	TO-93C
ST300S20P0	2000	470	300	75	6730	7040.0	3.00	200.00	1.66	940	TO-118C

Photovoltaic Relays and Isolators



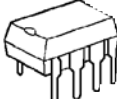
PVR



PVA



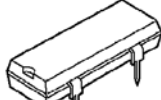
PVD



PVT322/PVT422



PVT312/PVT412/  
PVU/PVN/PVX



PVX



PVI

Photovoltaic Relays

The operating parameters of photovoltaic relays are ideal for switching low-level signal loads in instrumentation and data acquisition to medium power loads in industrial controls and process automation, i.e. from microvolts and microamps to 400 V (AC peak or DC) and up to 4.5 A of load current at a contact resistance as low as 40 milliohms.

Mfr.'s Type	Max. Load Voltage (Volts)	Max. Load Current @ 40°C DC (mA)	Nom. Control Current (mA)	Minimum Off-State Resistance (Ohms)	Dielectric Strength Input/Output V <sub>RMS</sub>
PVR1300	±100	700	10	10 <sup>6</sup>	1500
PVR3301	±300	260	10	10 <sup>6</sup>	1500
PVA1354	±100	315	5	10 <sup>6</sup>	2500
PVA3054	±300	40	5	10 <sup>6</sup>	2500
PVA3055	±300	40	5	10 <sup>6</sup>	2500
PVA3324	±300	130	2	10 <sup>6</sup>	2500
PVAZ172N	±60	1000	10	10 <sup>6</sup>	4000
PVD1352	±100	500	5	10 <sup>6</sup>	2500
PVD1354	±100	500	5	10 <sup>6</sup>	2500
PVD3354	±300	220	5	10 <sup>6</sup>	2500
PVDZ172N	±60	1500	10	10 <sup>6</sup>	4000
PVT322	±250	170	2	2.50 × 10 <sup>6</sup>	4000
PVT412	±400	210	3	4.00 × 10 <sup>6</sup>	4000
PVU414	±400	210	3	10 <sup>6</sup>	4000
PVN012	±20	4500	3	0.16 × 10 <sup>6</sup>	4000
PVG612	±60	2000	5	10 <sup>6</sup>	4000
PVT422	±400	120	2	3.20 × 10 <sup>6</sup>	4000
PVX6012	±400	1000	5	—	3750

Photovoltaic Relays (continued)

Mfr.'s Type	Max. Load Voltage (Volts)	Max. Load Current @ 40°C DC (mA)	Nom. Control Current (mA)	Minimum Off-State Resistance (Ohms)	Dielectric Strength Input/Output V <sub>RMS</sub>
PVT442	±400	300	3	4.00 × 10 <sup>6</sup>	4000

Photovoltaic Isolators

Photovoltaic isolators offer single and dual channel, optically isolated outputs that can be used for directly driving the gates of discrete power MOSFETs and/or IGBTs, giving designers the flexibility of creating their own, custom made solid state relays capable of controlling loads well over 1000 V and 100 A.

Mfr.'s Type	No. of Outputs	Output Voltage (V) DC	Short Circuit Current (μA)	Nominal Control Current (mA)	Dielectric Strength Input/Output V <sub>RMS</sub>
PVI5013R	2	3/6	2/1	5	3750
PVI5050N	1	5	5	10	2500
PVI5080N	1	5	8	10	2500
PVI1050N	2	5/10	10/5	10	2500
PVI5033R	2	5/10	10/5	5	3750