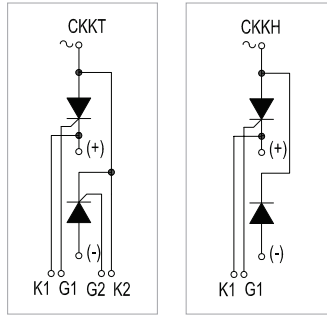


Features:

- High surge current capability
- Low leakage current
- RoHS Compliant
- Electrically isolated base
- Industry standard packages

Applications:

- Electronic welding controls
- Battery charging applications
- Lighting controls
- AC & DC motor drives and controls
- HVAC control systems



Part Number	Rep Peak Rev Voltage	Max Avg Fwd Current	Case Temp	Max Output Current	Max Surge Current	I ² t Max for Fusing	Max Fwd Voltage Drop	
	V _{RRM} V	I _{T(AV)} @ T _C A	T _C °C	I _{T(RMS)} ¹ A	I _{TSM} @ 60Hz A	I ² t @ 60Hz KA ² s	V _{TM} V	I _{TM} A
CKKT & CKKH/• Series Power Modules - Thyristor/Thyristor & Thyristor/Diode								
CKK‡26/•	400-1600	27	85	60	560	1.3	1.95	85
CKK‡41/•	400-1600	45	85	100	810	2.7	1.81	141
CKK‡56/•	400-1600	60	85	135	1310	7.1	1.54	189
CKK‡71/•	400-1600	75	85	165	1610	10.9	1.59	236
CKK‡91/•	400-1600	95	85	210	1785	14.6	1.58	300
CKK‡105/•	400-1600	105	85	235	1785	14.6	1.64	330
CKK‡136/•	400-1600	135	85	300	3360	47	1.66	425
CKK‡142/•	400-1600	140	85	310	5000	103	1.32	440
CKK‡162/•	400-1600	160	85	355	5350	119	1.26	503
CKK‡170/•	400-1800	170	85	377	5350	119	1.60	534
CKK‡230/•	400-1800	230	85	510	7850	256	1.59	723
CKK‡250/•	400-1800	250	85	555	8900	330	1.44	785
CKK‡280/•	400-2200	280	79	440	7840	255	1.55	750
CKK‡330/•	400-1600	330	85	520	9420	370	1.44	1037
CKK‡500/•	400-1800	540	85	850	18700	1452	1.50	1696
CKK‡570/•	400-1800	570	85	895	18700	1452	1.44	1791
CKK‡650/•	1000-1200	650	85	1020	23915	1750	1.40	1978
CKK‡715/•	1000-1800	715	85	1123	26330	2320	1.45	2512
CKK‡800/•	1000-1800	800	78	1256	28000	3920	1.45	2513
CKK‡1000/•	1000-1200	1000	77	1570	32000	5120	1.25	3142

Part Number	Max Total Thermal Res	Low Level Fwd Slope Resistance	Threshold Voltage	Max Gate Trigger Conditions		Critical Rate of Rise		Figure
	R _{θ(J-S)} °C/W	r _F mΩ	V _{T(TO)} V	V _{GT} V	I _{GT} mA	Volts/μS dv/dt V	Amps/μS di/dt I	
CKKT & CKKH/• Series Power Modules - Thyristor/Thyristor & Thyristor/Diode								
CKK‡26/•	0.410	12.11	0.92	2.5	150	1000	150	8
CKK‡41/•	0.330	5.90	0.88	2.5	150	1000	150	8
CKK‡56/•	0.300	3.53	0.85	2.5	150	1000	150	8
CKK‡71/•	0.265	3.00	0.82	2.5	150	1000	150	8
CKK‡91/•	0.235	2.40	0.80	2.5	150	1000	150	8
CKK‡105/•	0.235	2.37	0.80	2.5	150	1000	150	8
CKK‡136/•	0.235	1.62	0.98	3.0	200	1000	300	9
CKK‡142/•	0.205	0.92	0.75	3.0	200	1000	500	9
CKK‡162/•	0.205	0.84	0.79	3.0	200	1000	500	9
CKK‡170/•	0.190	1.34	0.89	3.0	200	1000	500	10
CKK‡230/•	0.145	0.77	1.03	3.0	200	1000	500	10
CKK‡250/•	0.145	0.60	0.97	3.0	200	1000	500	10
CKK‡280/•	0.131	0.75	0.90	3.0	200	500	100	10
CKK‡330/•	0.130	0.60	0.80	2.0	200	1000	250	10
CKK‡500/•	0.082	0.27	0.92	3.0	200	1000	200	11
CKK‡570/•	0.089	0.32	0.78	3.0	200	1000	250	11
CKK‡650/•	0.085	0.10	0.85	2.5	250	500	100	11
CKK‡715/•	0.066	0.20	0.85	2.5	250	500	100	12
CKK‡800/•	0.066	0.23	0.85	2.5	250	1000	400	12
CKK‡1000/•	0.066	0.15	0.90	2.5	250	1000	400	12

Notes:

- ¹ For Thyristors when used in AC switch application only
- ² Temperatures T_{STG} & T_J at -40°C to +125°C

Data for all device parameters taken at 25°C unless otherwise noted.

‡ Replace the double plus symbol with the T or H style indicator per datasheet.

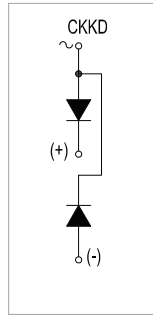
- Replace the bullet symbol with the first two numbers of the desired voltage listed in the V_{RRM} column of the table e.g. CKK‡71/08 for 800 Volts V_{RRM} or CKKT71/12 for 1200 Volts

Features:

- High surge current capability
- Low leakage current
- RoHS Compliant
- Electrically isolated base
- Industry standard packages

Applications:

- Electronic welding controls
- Battery charging applications
- Power supplies
- High Power motor drives



Part Number	Rep Peak Rev Voltage V_{RRM} V	Max Avg Fwd Current $I_{F(AV)}$ @ T_c A	Max Case Temp T_c °C	Max Surge Current I_{FSM} @ 60Hz A	I^2t Max for Fusing I^2t @ 60Hz KA ² s	Max Fwd Voltage Drop @ I_{FM} V_{FM} V	Max Fwd Current I_{FM} A	Max Total Thermal Resistance $R_{\theta(JS)}$ °C/W	Low Level Fwd Slope Resistance r_F mΩ	Threshold Voltage $V_{F(TO)}$ V	Figure
CKKD/• Series Power Modules - Diode/Diode - Standard Recovery											
CKKD56/•	400-1600	55	100	1660	11.76	1.35	172	0.425	3.76	0.71	8
CKKD71/•	400-1600	70	100	1870	14.53	1.36	220	0.385	2.8	0.61	8
CKKD91/•	400-1600	90	100	2110	18.65	1.34	282	0.32	1.81	0.66	8
CKKD105/•	400-1600	105	87	2110	18.65	1.34	330	0.32	1.81	0.66	8
CKKD166/•	400-1600	165	100	4200	73	1.57	518	0.235	1.69	0.70	9
CKKD196/•	400-1600	195	100	4980	103	1.32	612	0.235	0.92	0.75	9
CKKD236/•	400-1600	230	100	6850	195	1.26	722	0.205	0.64	0.79	9
CKKD250/•	400-1800	250	100	7345	225	1.29	785	0.195	0.63	0.79	10
CKKD270/•	400-1800	270	100	9430	363	1.48	848	0.16	0.94	0.74	10
CKKD320/•	400-1800	320	100	10580	466	1.28	1005	0.16	0.59	0.69	10
CKKD350/•	400-1600	350	100	10580	466	1.25	1100	0.16	0.59	0.69	10
CKKD570/•	1200-2200	570	100	15750	1181	1.30	1790	0.085	0.38	0.80	11
CKKD700/•	1000-2200	701	100	26325	2315	1.3	2202	0.092	0.28	0.70	11
CKKD1000/•	400-1600	1000	100	31000	3260	1.41	3410	0.062	0.15	0.85	12

Notes:

¹ Temperatures T_{STG} & T_J at -40°C to +125°C

Current ratings require assembly on an appropriately engineered heat sink and use of a quality heat coupling compound.

Data for all device parameters taken at 25°C unless otherwise noted.

‡ Replace the double plus symbol with the D, T, U or H style indicator per datasheet.

• Replace the bullet symbol with the first two numbers of the desired voltage listed in the V_{RRM} column of the table e.g. CKKD71/08 for 800 Volts V_{RRM} or CKKT71/12 for 1200 Volts

Additional devices available on special request. Contact the factory.

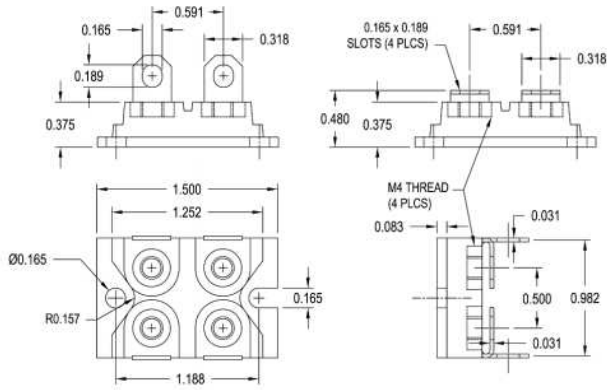


FIG 7 SOT227

E1D PACKAGE

D1D PACKAGE

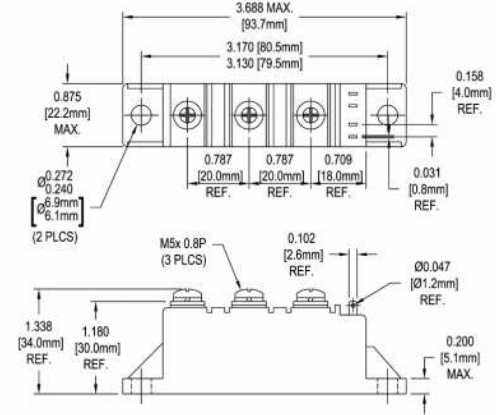


FIG 8

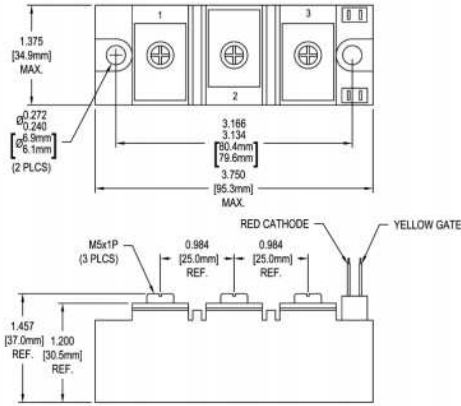


FIG 9

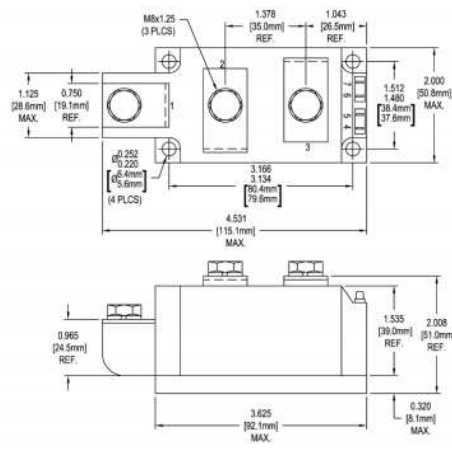


FIG 10

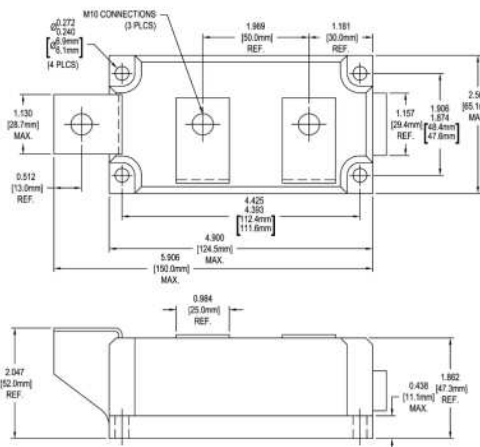


FIG 11

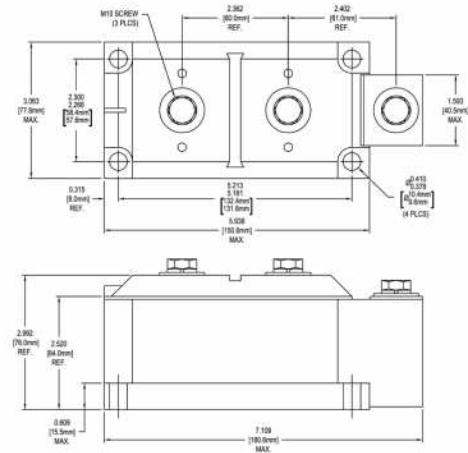


FIG 12