

Thyristors — continued

ISOTOP Power Modules



H = 12.2, W = 38, D = 25.4
Isolation voltage = 2500Vrms
Fixing centres = 31.6

Configuration	Pin Out				Schematic
	1	2	3	4	
Thyristor	A1	G2	A2	G1	
Thyristor/ Diode	I	K	G	A	

A range of power modules, configured as either 2 SCRs or a single SCR and diode. The Isotop is a compact package with isolated base mounting.

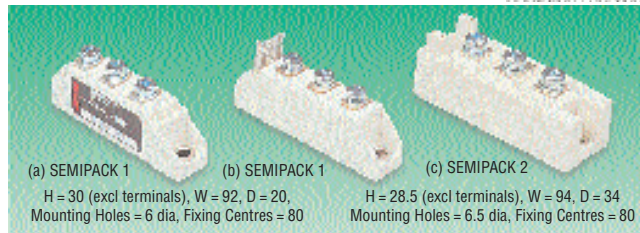
Thyristor Modules	V_{RRM}/V_{DRM} V	I_O (AV) @ $T_c = 90^\circ\text{C}$ A	I_{TSM} @ $T_f = 25^\circ\text{C}$ A	I_T (RMS) @ $T_c = 90^\circ\text{C}$ A	di/dt A/ μs	Mfrs. List No.
800	25	475	40	100	MSS40-800	
800	—	600	70	1000	MSS50-800	
1200	—	400	55	100	MSS40-1200	
1200	32	550	50	100	MSS50-1200	

Thyristor/Diode Modules	V_{RRM}/V_{DRM} V	I_O (AV) @ $T_c = 90^\circ\text{C}$ A	I_{TSM} @ $T_f = 25^\circ\text{C}$ A	I_T (RMS) @ $T_c = 90^\circ\text{C}$ A	di/dt A/ μs	Mfrs. List No.
800	25	400	50	100	MDS35-800	
800	32	650	50	100	MDS50-800	
1200	25	400	50	100	MDS35-1200	
1200	30	600	70	100	MDS50-1200	

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Mfrs List No.	Order Code	1+	5+	10+	25+	50+
Thyristor Modules						
MSS40-800	.234-023					
MSS40-1200	NEW 332-8247					
MSS50-800	NEW 332-8259					
MSS50-1200	.234-059					
Thyristor/Diode Modules						
MDS35-800	NEW 332-8211					
MDS35-1200	NEW 332-8223					
MDS50-800	.234-060					
MDS50-1200	NEW 332-8235					

SEMIPACK 1/SEMIPACK 2 Power Modules



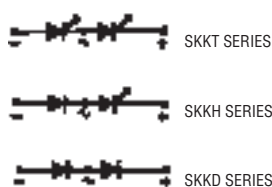
(a) SEMIPACK 1

(b) SEMIPACK 1

(c) SEMIPACK 2

H = 30 (excl terminals), W = 92, D = 20,
Mounting Holes = 6 dia, Fixing Centres = 80

H = 28.5 (excl terminals), W = 94, D = 34
Mounting Holes = 6.5 dia, Fixing Centres = 80



- 3 SCR/diode configuration options
- Isolated base plate to 2.5kV
- Standard 80mm fixing centres

Applications include general power control, motor speed control, battery charging, welding, lamp dimming etc. Auxiliary gate and cathode connections are made by 2.8 0.8 faston tabs (supplied), or may be soldered. Screw terminals are M5 (SEMIPACK 1) and M6 (SEMIPACK 2).

FOR SUITABLE HEATSINKS SEE BOOK 2, SECTION 7

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Thyristor Modules	V_{RRM}/V_{DRM} V	Pack- age	Mfrs. List No.	Order Code	Price Each		
					1+	5+	50+
I_O (AV) = 18A, I_{TSM} = 320A							
800	(b)		SKKT20B08D	.362-190			
1200	(b)		SKKT20B12E	.362-207			
1600	(b)		SKKT20B16E	.741-838			
I_O (AV) = 25A, I_{TSM} = 470A							
800	(b)		SKKT27B08D	.362-219			
1200	(b)		SKKT27B12E	.362-220			
1400	(b)		SKKT27B14E	.741-826			
1600	(b)		SKKT27B16E	.310-2865			
I_O (AV) = 40A, I_{TSM} = 1000A							
800	(b)		SKKT42B08D	.362-232			
1200	(b)		SKKT42B12E	.362-244			
1600	(b)		SKKT42B16E	.234-540			
2200	(b)		SKKT42B22E	.310-2877			
I_O (AV) = 55A, I_{TSM} = 1500A							
800	(b)		SKKT57B08D	.362-256			
1200	(b)		SKKT57B12E	.362-268			
1600	(b)		SKKT57B16E	.234-552			
2201	(b)		SKKT57B22E	.310-2889			

continued

V_{RRM}/V_{DRM} V	Pack- age	Mfrs. List No.	Order Code	Price Each		
				1+	5+	50+

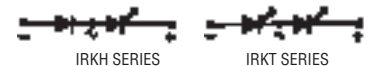
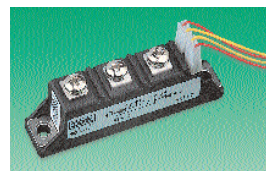
Thyristor Modules — continued

I_O (AV) = 95A, I_{TSM} = 2000A						
800	(b)	SKKT92B08D	.362-270			
1200	(b)	SKKT92B12E	.362-281			
1600	(b)	SKKT92B16E	.234-564			
I_O (AV) = 115A, I_{TSM} = 6000A						
800	(b)	SKKT106B08D	.310-2804			
1200	(b)	SKKT106B12E	.362-293			
1600	(b)	SKKT106B16E	.741-840			
I_O (AV) = 130A, I_{TSM} = 4700A						
1200	(c)	SKKT13212E	.362-311			
1600	(c)	SKKT13216E	.741-851			
2200	(c)	SKKT13222E	.310-2828			
I_O (AV) = 160A, I_{TSM} = 5400A						
800	(c)	SKKT16208D	.310-2830			
1200	(c)	SKKT16212E	.362-335			

Thyristor/Diode Modules

I_O (AV) = 25A, I_{TSM} = 470A						
800	(b)	SKKH2708D	.362-347			
1200	(b)	SKKH2712E	.362-359			
1600	(b)	SKKH2716E	.310-2774			
I_O (AV) = 40A, I_{TSM} = 1000A						
800	(b)	SKKH4208D	.362-360			
1200	(b)	SKKH4212E	.362-372			
1600	(b)	SKKH4216E	.310-2786			
I_O (AV) = 95A, I_{TSM} = 2000A						
800	(b)	SKKH9208D	.362-384			
1200	(b)	SKKH9212E	.362-396			
1600	(b)	SKKH9216E	.310-2798			
Diode Modules						
I_O (AV) = 45A, I_{TSM} = 700A						
800	(a)	SKKD4608	.362-402			
1200	(a)	SKKD4612	.362-414			
1600	(b)	SKKD4616	.310-2750			
I_O (AV) = 80A, I_{TSM} = 2000A						
800	(a)	SKKD8108	.362-426			
1200	(a)	SKKD8112	.362-438			
1600	(a)	SKKD8116	.234-539			
2200	(b)	SKKD8122	.310-2762			

ADD-A-Pak Power Modules



IRKH SERIES

IRKT SERIES

H = 37 (incl terminals), W = 92, D = 20
Mounting holes = 6.2 dia, Fixing centres = 80

The ADD-A-pak range of power modules containing either two thyristors or a thyristor and diode offers simple circuit elements that can be interconnected to form various circuits. The isolated base allows mounting on an earthed heatsink alongside other modules and devices. They are intended for general purpose phase control applications. Screw terminals are M5. Auxiliary gate and cathode leads are supplied separately.

FOR SUITABLE HEATSINKS SEE BOOK 2, SECTION 7

SD60

Thyristor Modules	I_O (AV) A	$T_c = 85^\circ\text{C}$	I_{TSM} A	V_{RRM}/V_{DRM} V	Mfrs. List No.	Order Code	Price Each		
							1+	10+	25+
25	595	1200	IRKT26-12	.362-440					
40	850	1200	IRKT41-12	.362-451					
55	1310	1200	IRKT56-12	.362-463					
70	1400	600	IRKT71-06	.438-170					
70	1400	1200	IRKT71-12	.438-169					
90	1500	600	IRKT91-06	.362-475					
90	1500	1200	IRKT91-12	.362-487					
Thyristor/Diode Modules									
40	850	600	IRKH41-06	.362-499					
55	1310	600	IRKH56-06	.438-182					
90	1500	600	IRKH91-06	.362-505					
Leads for IRKT modules					64432115AA	.162-530			
Leads for IRKH modules					64432116AA	.162-528			

Major International Brands

All the leading brand names from over 1,100 major international manufacturers.