THYRISTOR-DIODE MODULE | 可控硅-二极管混合模块

Features

- Base & chip insulation AC voltage 2500V
- International standard packing
- Excellent temperature feature
- ≥300A could chose water-cool
- Easy to install

Applications

- AC DC motor control
- Motor soft start
- Industry heat-up control
- Rectificate power supply
- Welder
- Frequency transformer
- UPS power supply
- Battery change & dischange

Ordering Information Table

Device Code M F C 160 -12 *
(① ② ③ ④ ⑤ ⑥)

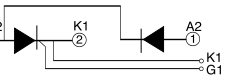
1 -Power Module
2 -T=thy-thy;D=dio-dio;F=dio-thy;
K=fast thy;Z=fast dio;H=fast thy-fast dio
3 -Circuit form:A=common positive pole;
C=series commection;
K=common negative pole;
X=reverse parallel connection;
4 -Current Code=$IF_{(AV)}/IT_{(AV)}$
5 -Voltage code=Code × 100=V_{RRM}
6 -None: Air-cool * Means water-cool

Explanation

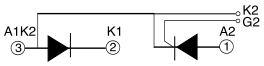
- I_{GT},V_{GT},I_H are all T_A=25℃ test data,others are all T_A=T_{jm} test data.
- $I^2t=I^2_{TSM} \times t_w/2$:$t_w$=Half sine wave current,when at 50Hz,
  $I^2t=0.005I^2_{TSM}(A^2S)$
- When at 60Hz,I_{TSM}(8.3ms)=I_{TSM}(10ms) × 1.066,T_j=T_{jm}
  I^2t(8.3ms)=I^2t(10ms) × 0.943,T_j=T_{jm}

Part number type & circuit

MFC(TD) SKKH IRKH/VSKH



MFC(DT) SKKL IRKL/VSKL



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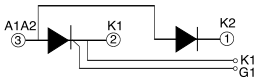

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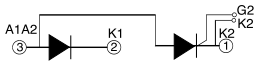

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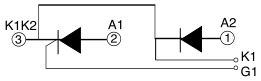

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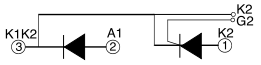
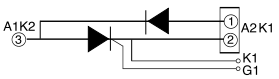
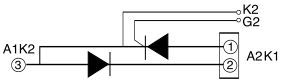


MFX(TD)



MFX(DT)



THYRISTOR-DIODE MODULE 可控硅-二极管混合模块 (MFC,MFK,MFA,MFX)

Type	$I_{T(AV)}$	V_{DRM} V_{RRM}	V_{TM}@I_{TM}		I_{DRM} I_{RRM}	I_{GT}	V_{GT}	I_H	d_v/d_t	d_i/d_t	I_{TSM}	R_{jc}	T_{jm}	V_{iso}	Outline
	A	V	V	A	mA	mA	V	mA	V/μs	A/μs	A × 10^3	℃/W	℃	V(AC)	
MFX25A	25	400-2600	1.69	80	8	100	2.5	100	800	50	0.55	0.950	125	2500	M1/M2
MFX40A	40	400-2600	1.60	120	8	100	2.5	100	800	50	1.00	0.650	125	2500	M1/M2
MFX55A	55	400-2600	1.50	170	8	100	2.5	100	800	50	1.25	0.530	125	2500	M1/M2
MFX70A	70	400-2600	1.48	210	10	100	2.5	100	800	50	1.60	0.410	125	2500	M1/M2
MFX90A	90	400-2600	1.94	270	15	100	2.5	100	800	100	2.00	0.280	125	2500	M1/M2
MFX110A	110	400-2600	1.90	330	20	100	2.5	100	800	100	2.40	0.250	125	2500	M1/M2
MFX130A	130	400-2600	1.96	410	25	150	2.5	100	800	100	3.80	0.200	125	2500	M2/M3
MFX160A	160	400-2600	1.90	480	25	150	2.5	100	800	100	5.40	0.170	125	2500	M3
MFX200A	200	400-2600	1.90	600	30	180	2.5	100	800	100	7.20	0.140	125	2500	M3/M4
MFX250A	250	400-2600	1.73	750	30	180	2.5	100	800	100	8.50	0.120	125	2500	M4
MFX300A	300	400-2600	1.58	900	40	180	2.5	100	800	100	9.30	0.100	125	2500	M4
MFX350A	350	400-2600	1.45	1050	40	180	2.5	100	800	100	11.0	0.090	125	2500	M5
MFX400A	400	400-2600	1.44	1200	40	200	3.0	100	800	100	14.0	0.080	125	2500	M5
MFX500A	500	400-2600	1.44	1500	40	200	3.0	100	800	100	16.0	0.065	125	2500	M5
MFX300A*	300*	400-2600	1.60	900	40	180	2.5	100	800	100	9.30	0.100	125	2500	M6
MFX500A*	500*	400-2600	1.65	1500	40	200	3.0	100	800	100	11.0	0.087	125	2500	M7
MFX600A*	600*	400-2600	1.70	1800	40	200	3.0	100	800	100	13.0	0.073	125	2500	M7/M8
MFX800A*	800*	400-2600	1.75	2400	40	200	3.0	100	800	100	16.0	0.054	125	2500	M8
MFX1000A*	1000*	400-2600	1.95	3000	40	200	3.0	100	800	100	20.0	0.050	125	2500	M9

*Means water-cool