

ONE UNITE MODULE | 一单元模块

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 charge & discharge

Ordering Information Table

Device Code **M T 50 -12**

① ② ③ ④

- 1 -Power Module
- 2 -T=thyristor;D=diode
- 3 -Current Code=IT(AV)/IF(AV)
- 4 -Voltage code=Code × 100=VRRM

Explanation

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



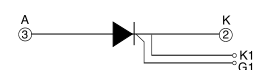
ONE UNITE THYRISTOR MODULE 一单元可控硅模块(MT)

Type	IT	VDRM VRRM	VTM@ITM		IDRM IRRM	IGT	VGT	IH	d _v /d _t	d _i /d _t	ITSM	R _{jc}	T _{jm}	V _{iso}	Outline
	A	V	V	A	mA	mA	V	mA	V/μs	A/μs	A × 10 ³	°C/W	°C	V(AC)	
MT50A	50	400-2600	1.50	170	8	100	2.5	100	800	50	1.25	0.530	125	2500	M28/M1
MT100A	100	400-2600	1.94	270	15	100	2.5	100	800	100	2.00	0.280	125	2500	M28/M2
MT150A	150	400-2600	1.90	480	25	150	2.5	100	800	100	5.40	0.170	125	2500	M29/M3
MT200A	200	400-2600	1.90	600	30	180	2.5	100	800	100	7.20	0.140	125	2500	M30/M3
MT250A	250	400-2600	1.73	750	30	180	2.5	100	800	100	8.50	0.120	125	2500	M30
MT300A	300	400-2600	1.58	900	40	180	2.5	100	800	100	9.30	0.100	125	2500	M30
MT350A	350	400-2600	1.45	1050	40	180	2.5	100	800	100	11.0	0.090	125	2500	M31
MT400A	400	400-2600	1.44	1200	40	200	3.0	100	800	100	14.0	0.080	125	2500	M31

ONE UNITE DIODE MODULE 一单元二极管模块(MD)

Type	IF(AV)	VRRM	VTM@ITM		IRRM	IF(RMS)	IFMS	R _{jc}	T _{jm}	V _{iso}	Outline
	A	V	V	A	mA	A	A × 10 ³	°C/W	°C	V(AC)	
MD50A	50	400-2600	1.45	170	8	86	1.30	0.700	150	2500	M28/M1
MD100A	100	400-2600	1.33	270	8	141	2.30	0.470	150	2500	M28/M2
MD150A	150	400-2600	1.56	480	12	251	6.00	0.230	150	2500	M29/M3
MD200A	200	400-2600	1.38	600	12	314	8.00	0.210	150	2500	M29/M3
MD250A	250	400-2600	1.43	750	20	393	11.0	0.140	150	2500	M30
MD300A	300	400-2600	1.35	900	20	471	12.5	0.130	150	2500	M30
MD350A	350	400-2600	1.50	1050	30	550	15.0	0.110	150	2500	M31
MD400A	400	400-2600	1.35	1200	40	640	18.0	0.100	150	2500	M31

Part number type & circuit



- ZENLI MT
- SEMIKRON SKET
- IGR/VSET

- MD
- SKKE
- IRKE/VSKE