

STANDARD DIODE MODULE 整流二极管模块

Features

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

Explanation

- $I^2t = I_{TSM}^2 \times t_w / 2$; t_w = Half sine wave current, when at 50Hz,
 $I^2t = 0.005 I_{TSM}^2 (A^2S)$
- When at 60Hz, $I_{TSM}(8.3ms) = I_{TSM}(10ms) \times 1.066$, $T_j = T_{jm}$
 $I^2t(8.3ms) = I^2t(10ms) \times 0.943$, $T_j = T_{jm}$

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 D C 90 -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= $I_{F(AV)}$
- 5** -Voltage code=Code $\times 100 = V_{RRM}$
- 6** -None: Air-cool * Means water-cool



STANDARD DIODE MODULE 整流二极管模块 (MDC,MDK,MDA,MDX,MD)

Type	$I_{F(AV)}$	V_{RRM}	$V_{FM}@I_{FM}$		I_{RRM}	$I_{F(RMS)}$	I_{FMS}	R_{jC}	T_{jm}	V_{iso}	Outline
	A	V	V	A	mA	A	$A \times 10^3$	$^{\circ}C/W$	$^{\circ}C$	V(AC)	
MDX25A	25	400-2600	1.65	80	8	41	0.65	1.300	150	2500	M1/M2
MDX40A	40	400-2600	1.55	120	8	63	1.00	0.900	150	2500	M1/M2
MDX55A	55	400-2600	1.45	170	8	86	1.30	0.700	150	2500	M1/M2
MDX70A	70	400-2600	1.40	210	8	110	1.80	0.570	150	2500	M1/M2
MDX90A	90	400-2600	1.33	270	8	141	2.30	0.470	150	2500	M1/M2
MDX110A	110	400-2600	1.45	330	8	173	2.60	0.350	150	2500	M1/M2
MDX130A	130	400-2600	1.38	410	12	212	3.90	0.310	150	2500	M2/M3
MDX160A	160	400-2600	1.56	480	12	251	6.00	0.230	150	2500	M3
MDX200A	200	400-2600	1.38	600	12	314	8.00	0.210	150	2500	M3/M4
MDX250A	250	400-2600	1.43	750	20	393	11.0	0.140	150	2500	M4
MDX300A	300	400-2600	1.35	900	20	471	12.5	0.130	150	2500	M4
MDX350A	350	400-2600	1.50	1050	30	550	15.0	0.110	150	2500	M5
MDX400A	400	400-2600	1.35	1200	40	640	18.0	0.100	150	2500	M5
MDX500A	500	400-2600	1.35	1500	40	785	21.0	0.090	150	2500	M5
MDX300A*	300	400-2600	1.45	900	20	471	12.5	0.130	150	2500	M6
MDX500A*	500	400-2600	1.55	1500	40	785	12.0	0.130	150	2500	M7
MDX600A*	600	400-2600	1.60	1800	40	942	15.0	0.110	150	2500	M7/M8
MDX800A*	800	400-2600	1.65	2400	40	1256	18.0	0.080	150	2500	M8
MDX1000A*	1000	400-2600	1.70	3000	40	1560	22.0	0.078	150	2500	M9

*Means water-cool

Part number type & circuit

