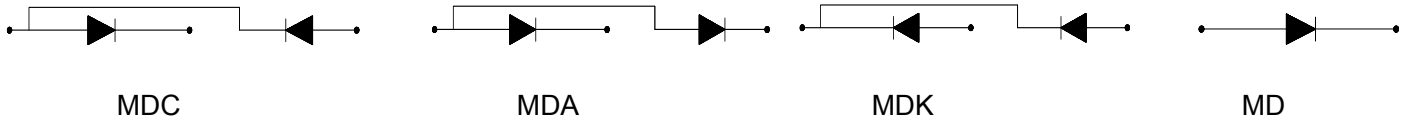


Rectifier Diode Modules

Type	$I_{F(AV)}$	V_{RRM}	I_{FSM}	I_{RRM}	V_{FO}	r_F	$R_{th(j-c)}$	V_{ISO}	T_j	Fig
	A	V	$A \times 10^3$	mA	V	m Ω	$^{\circ}C/W$	V	$^{\circ}C$	
MDx25	25	600-1800	0.65	10	0.80	10.9	1.25	2500	150	A
MDx40	40		1.00	10	0.80	6.00	0.90			A
MDx55	55		1.30	10	0.80	3.80	0.70			A
MDx70	70		1.80	15	0.76	2.70	0.56			A
MDx90	90		2.30	15	0.77	2.20	0.45			A,B
MDx110	110		2.60	20	0.80	1.75	0.35			A,B
MDx130	130		3.90	30	0.80	1.45	0.30			C
MDx160	160		6.00	30	0.79	1.35	0.23			C
MDx200	200		8.00	30	0.76	0.90	0.14			D
MDx250	250		11.0	30	0.78	0.88	0.14			D
MDx300	300		12.5	40	0.80	0.65	0.13			D
MDx350	350		15.0	40	0.80	0.61	0.10			F
MDx400	400		17.0	50	0.78	0.50	0.10			F,N
MDx500	500		19.0	50	0.75	0.32	0.09			F,N
MDx600	600		20.8	50	0.82	0.40	0.08			H
MDx800	800		22.0	50	0.78	0.25	0.07			J
MDx1000	1000		25.0	50	0.75	0.45	0.065			J
*MDx500	500		13.0	50	0.78	0.50	0.10			G
*MDx600	600		15.0	50	0.75	0.45	0.09			I
*MDx800	800		19.0	50	0.75	0.34	0.08			K



Note : If $V_{DRM}/V_{RRM} \geq 2500V$, $V_{iso} (AC) > 3000V$ otherwise =2500V, For module with V_{DRM}/V_{RRM} from 2500 to 5000V please contact factory $T_c = 100^{\circ}C$ * Water cooling and $T_c = 85^{\circ}C$

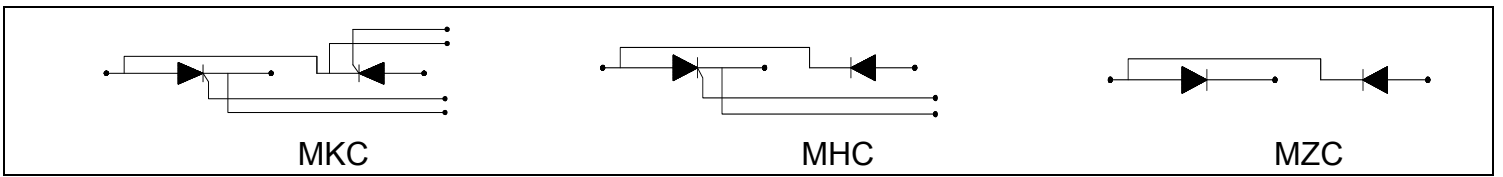
注：电压超过 2500V 的模块 绝缘电压要大于 3000V 如果需求 2500V 到 5000V 的模块 请与厂家联系

MKC MHC

$I_{T(AV)}$	V_{DRM} V_{RRM}	I_{TSM}	I_{DRM} I_{RRM}	di/dt	dv/dt	I_{GT}	V_{GT}	I_H	V_{TO}	r_T	$R_{th(j-c)}$	Tq	T_j	Fig
A	V	Ax10	mA	A/ μ s	V/ μ s	mA	v	mA	V	m Ω	$^{\circ}$ C/W	μ s	$^{\circ}$ C	mm
160	600-1600	4.30	30	>200	>800	<150	<3	<150	0.86	1.66	0.14	15-35	115	G
200		5.60	30	>200		<200	<3	<200	0.90	1.17	0.10	15-35		H
300		7.80	40	>200		<200	<3	<200	0.88	0.80	0.07	15-35		I

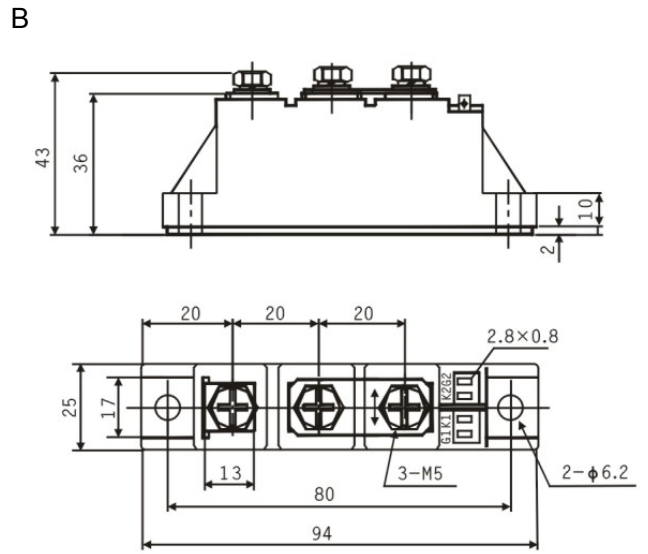
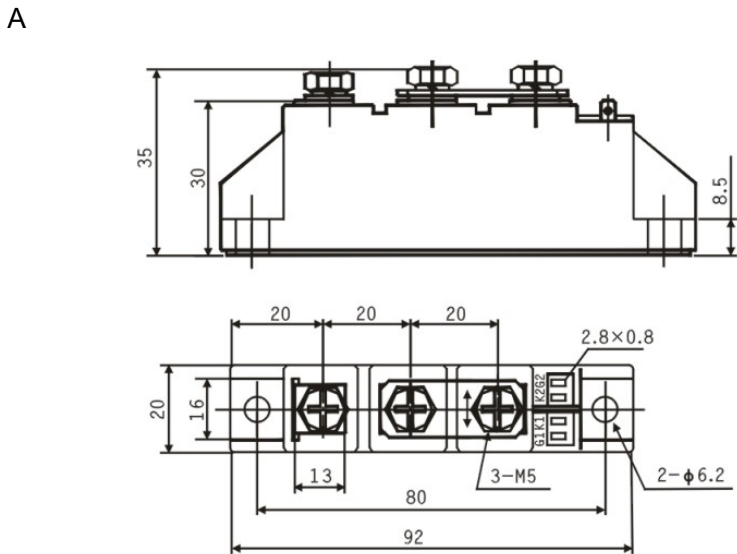
MZC

$I_{T(AV)}$	V_{RRM}	I_{FSM}	I_{RRM}	V_{FO}	R_F	$R_{th(j-c)}$	Trr	T_j	Fig
A	V	Ax10 ³	mA	V	m Ω	$^{\circ}$ C/W	μ s	$^{\circ}$ C	mm
160	600-1600	4.50	30	0.85	1.40	0.18	2.0	140	D
200		6.00	30	0.88	0.95	0.14	3.0		F
300		8.30	40	0.86	0.60	0.10	4.0		H

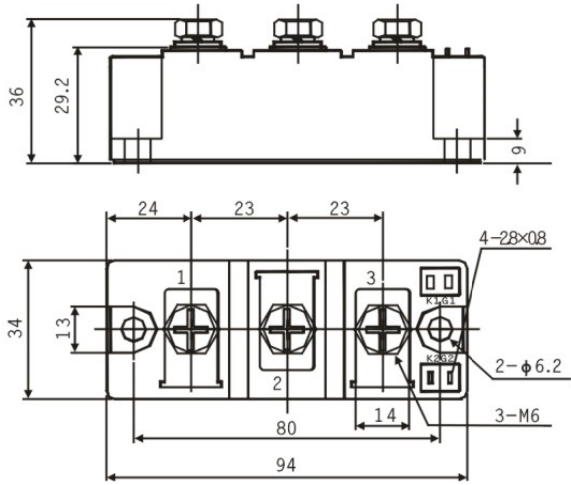


Note: MKC MHC @ Tc=85°C MZC @Tc=100°C V_{ISO} (AC)>2500V

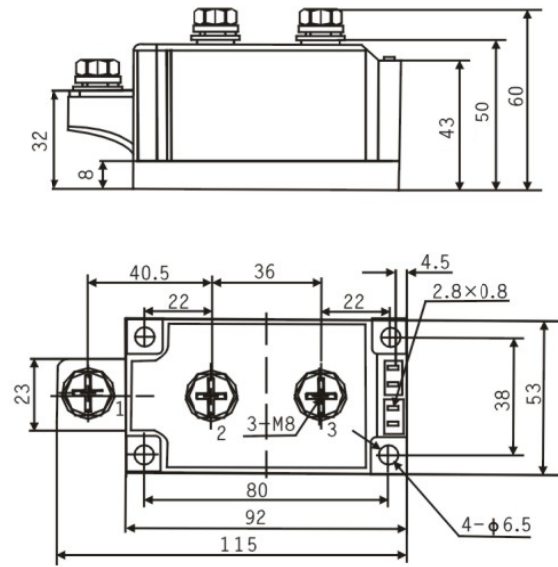
Module Outline



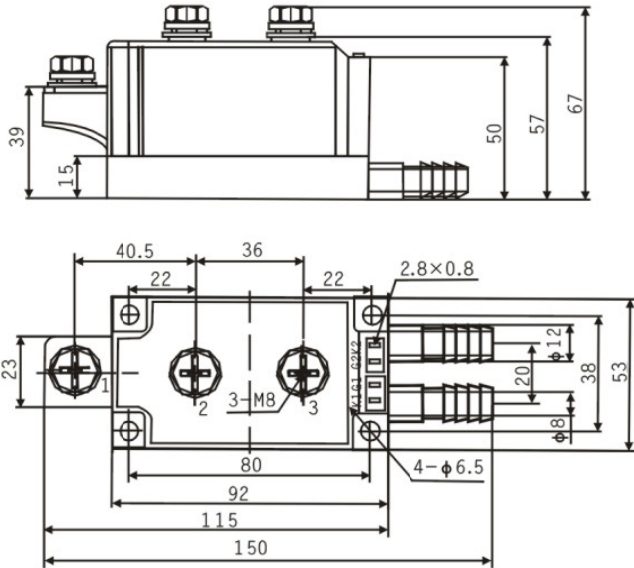
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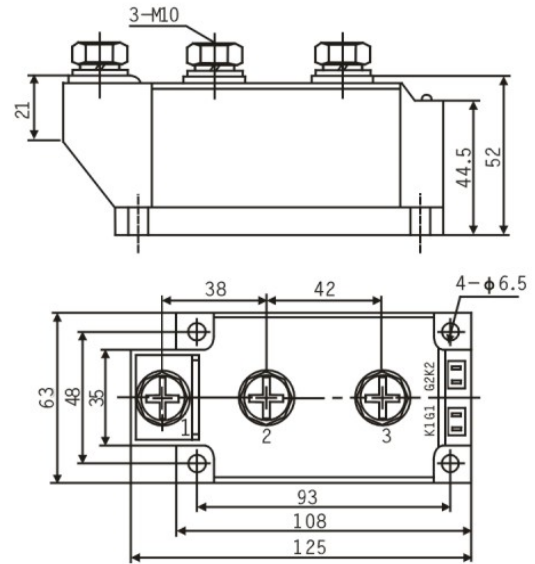
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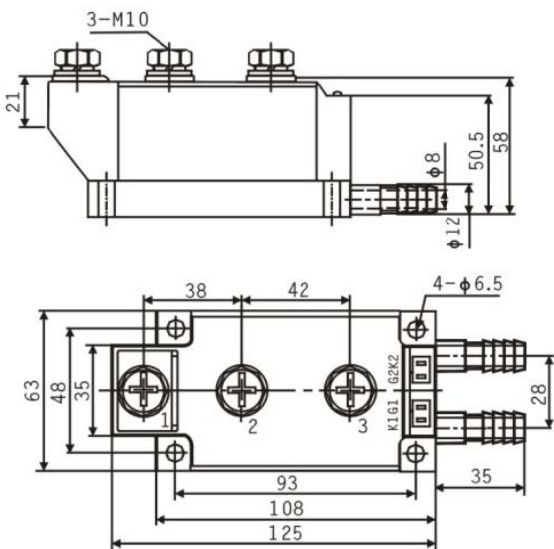
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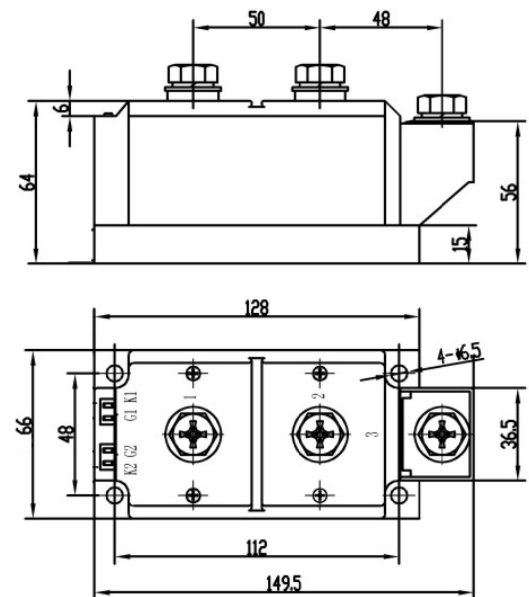
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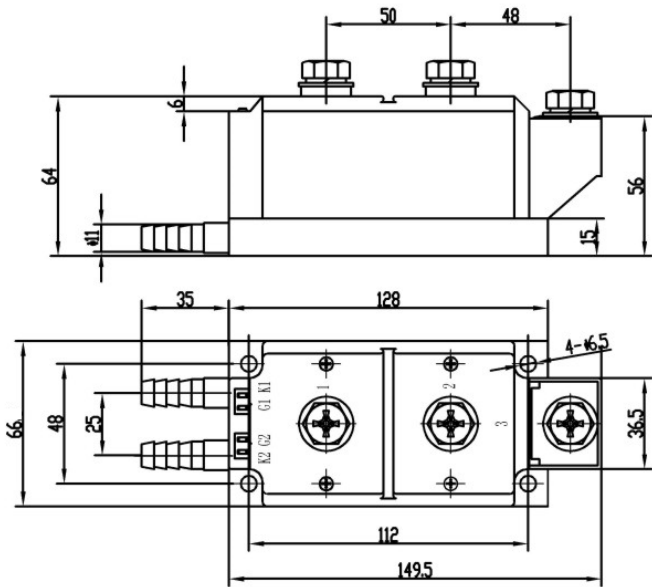
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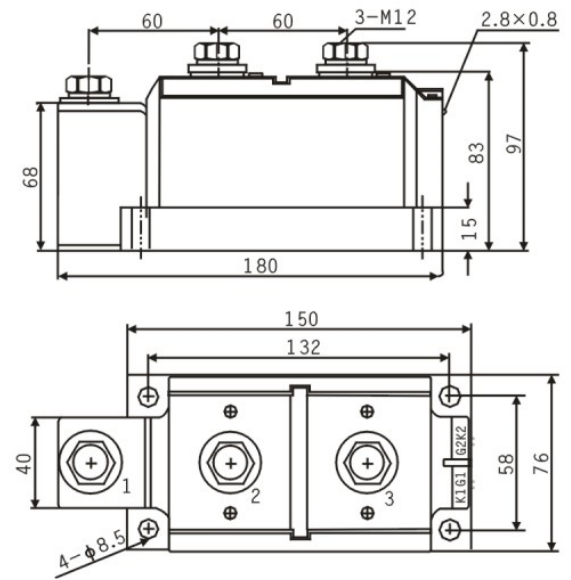
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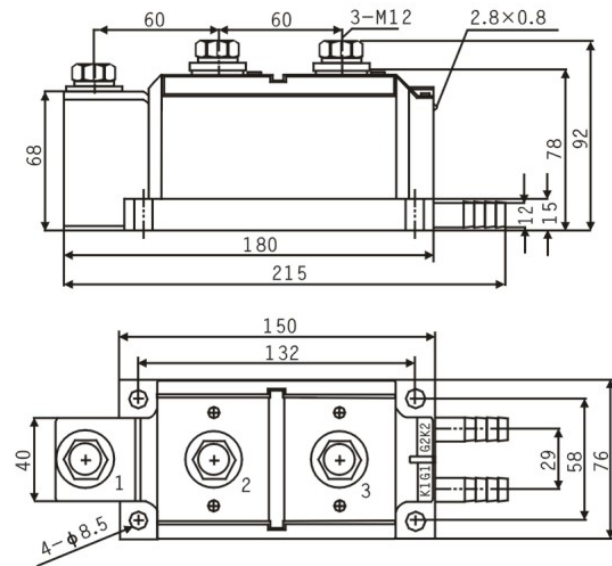
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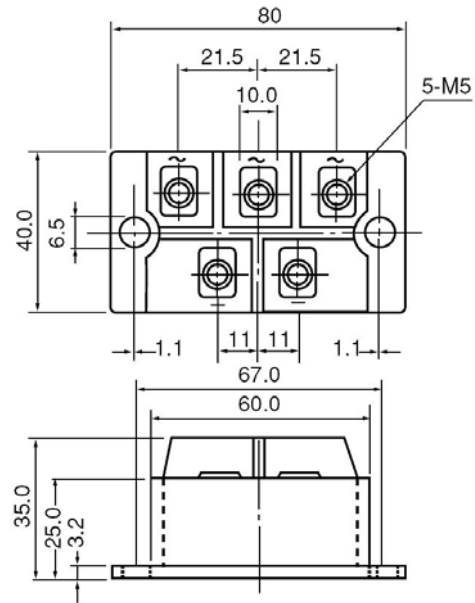
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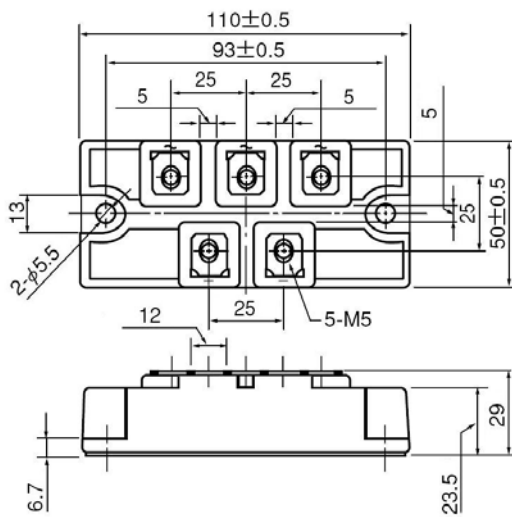
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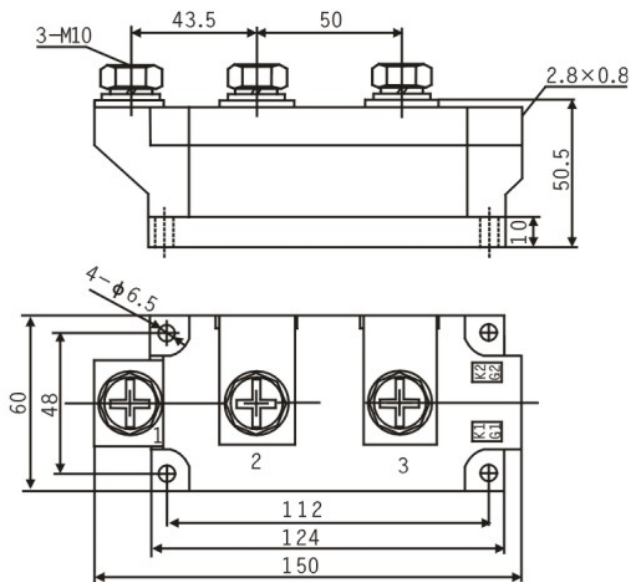
L



M



N



List of Symbols

V_{DRM}	Repetitive peak off-state voltage (50Hz,10ms)
V_{RRM}	Repetitive peak reverse voltage(50Hz,10ms)
I_{DRM}	Peak off-state current
I_{RRM}	Peak reverse recovery current
dv/dt	Critical rate of rise of off-state voltage
$I_{T(AV)}$	Mean on-state current
I_{TRMS}	RMS on-state current
I_{TSM}	Surge on-state current
i^2t	i^2t value
di/dt	Critical rate of rise of on-state current
V_{TM}	Peak on-state voltage
V_{TO}	Threshold voltage
I_{GT}	Gate trigger current
V_{GT}	Gate trigger voltage
I_H	Holding current
r_T	slope resistance
T_C	Case temperature
t_{rr}	Reverse recovery time
t_q	Circuit commutated turn-off time
T_j	Max. junction temperature
I_{TM}	Peak on-state current
$I_{F(AV)}$	Mean forward current
$I_{F(RMS)}$	RMS forward current
I_{FSM}	surge forward current
V_{FM}	Peak forward voltage
r_F	Forward slope resistance
I_{FM}	Peak forward current
F	Mounting force
V_{OV}	Overload current
I_o	Rated rectifiers current
V_D	Rated continuous(direct) output voltage