

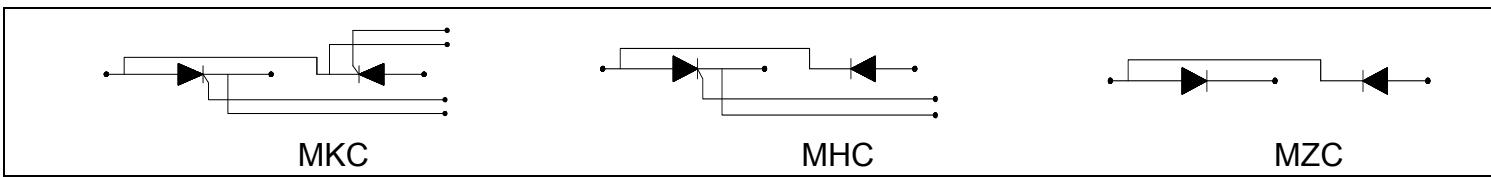
Fast Thyristor Modules & Fast Diode Modules

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	$R_{th(j-c)}$	T_q	T_j	Fig
A	V	$A \times 10$	mA	$A/\mu s$	$V/\mu s$	mA	v	mA	V	$m\Omega$	$^{\circ}C/W$	μs	$^{\circ}C$	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

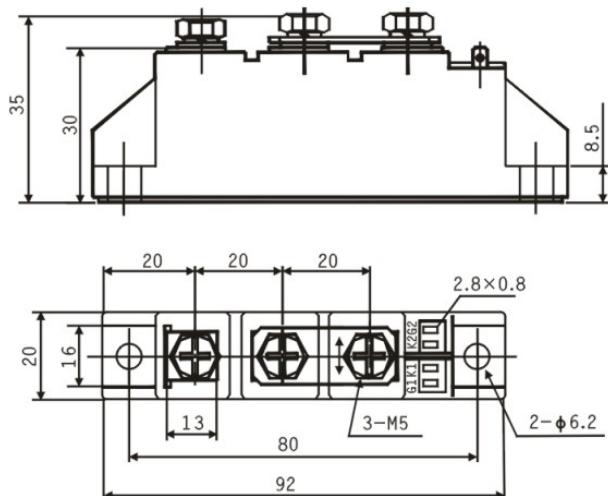
$I_{T(AV)}$	V_{RRM}	I_{FSM}	I_{RRM}	V_{FO}	R_F	$R_{th(j-c)}$	T_{rr}	T_j	Fig
A	V	$A \times 10^3$	mA	V	$m\Omega$	$^{\circ}C/W$	μs	$^{\circ}C$	mm
160	600-1600	4.50	30	0.85	1.40	0.18	2.0	140	D
200		6.00	30	0.88	0.95	0.14	3.0		F
300		8.30	40	0.86	0.60	0.10	4.0		H



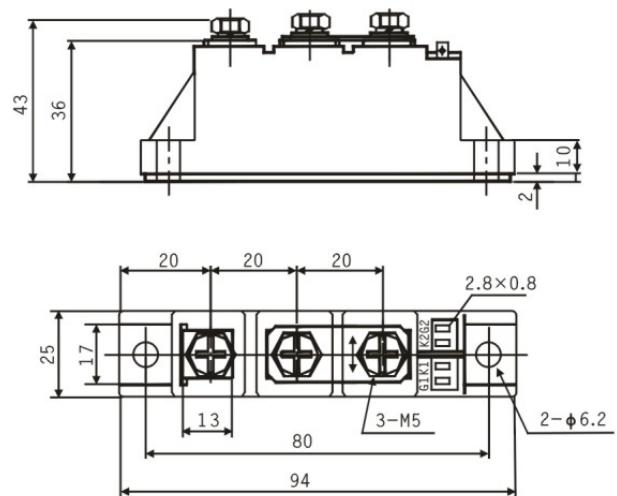
Note: MKC MHC @ $T_c=85^{\circ}C$ MZC @ $T_c=100^{\circ}C$ $V_{ISO}(\text{AC})>2500V$

Module Outline

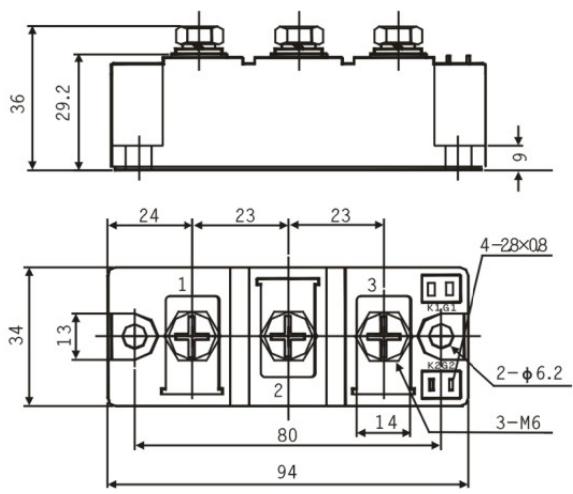
A



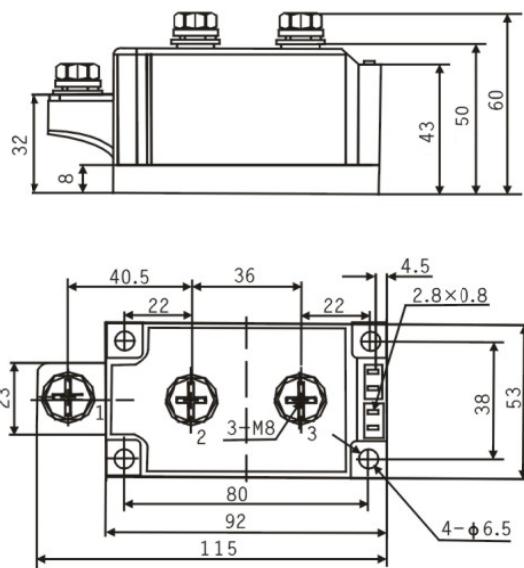
B



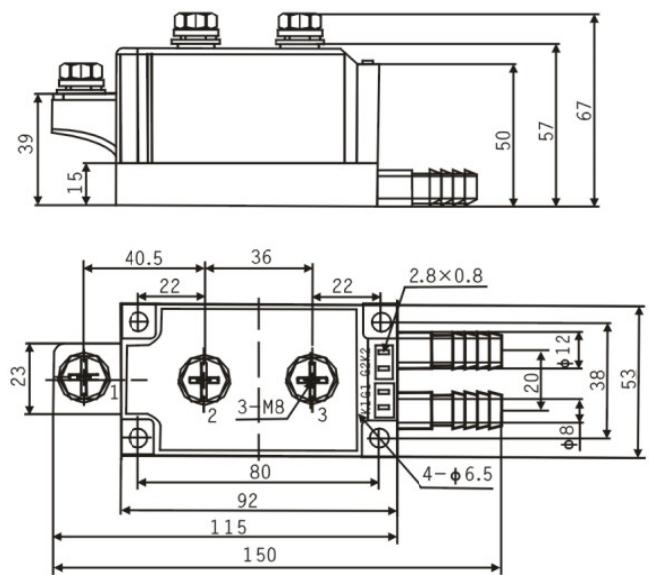
C



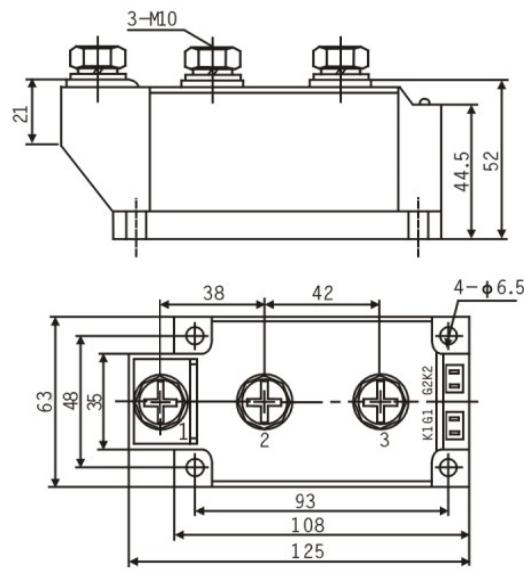
D



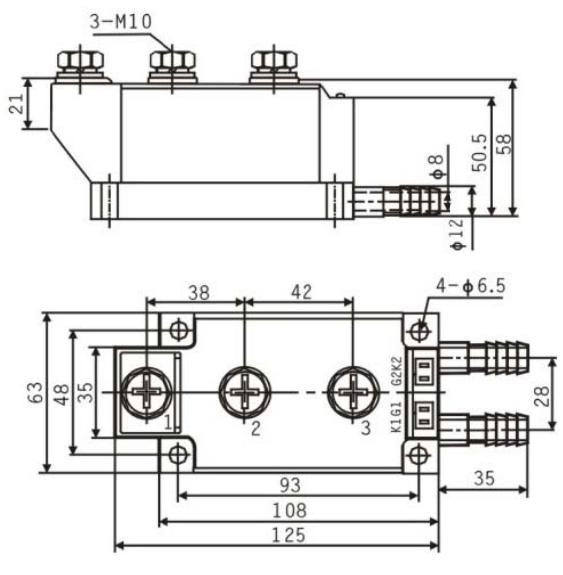
E



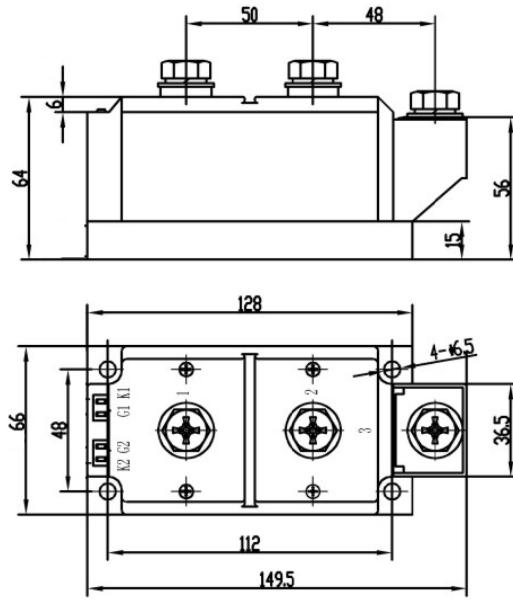
F



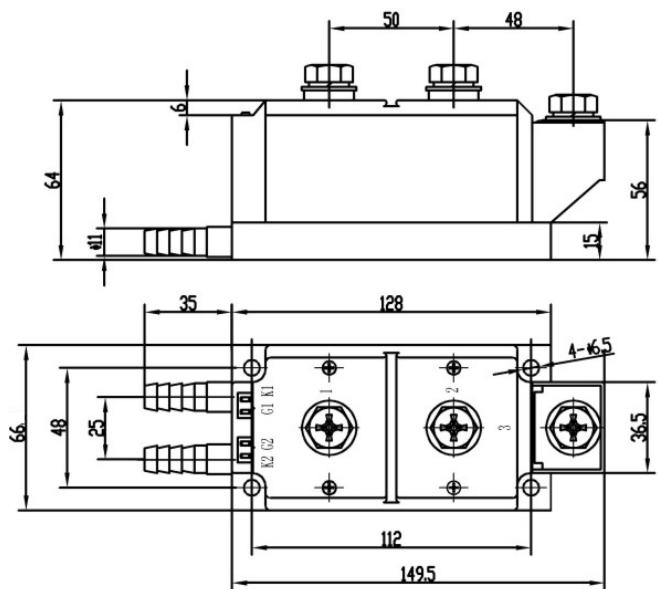
G



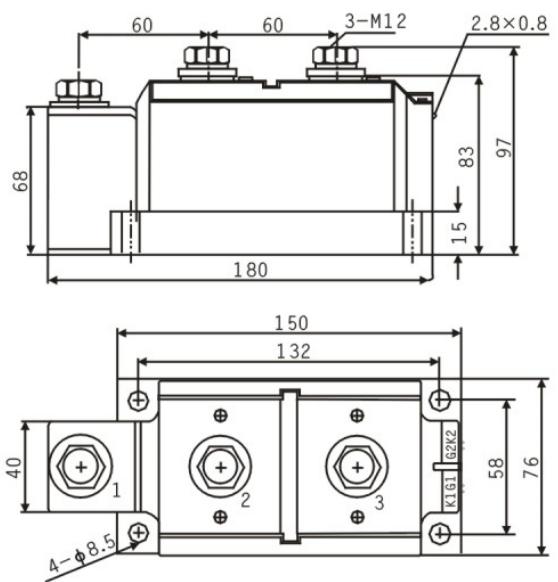
H



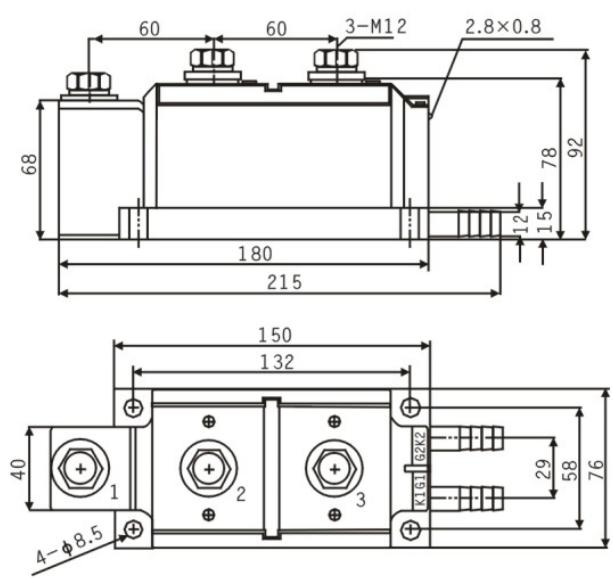
I



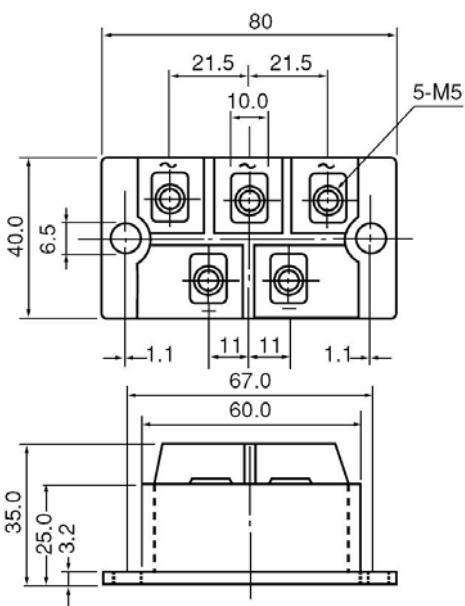
J



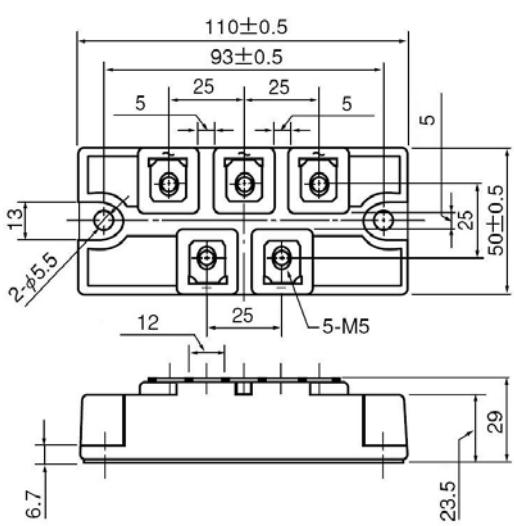
K



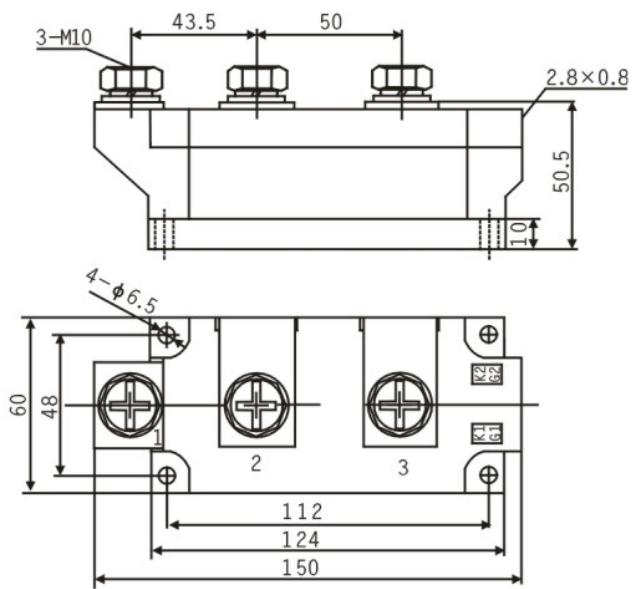
L



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