

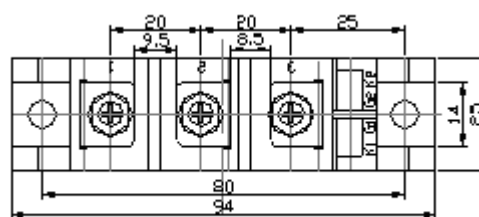
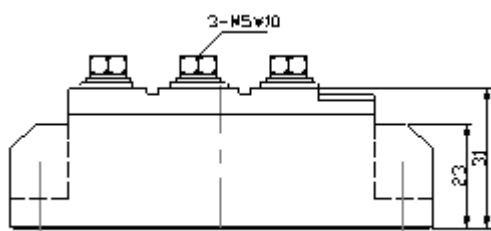
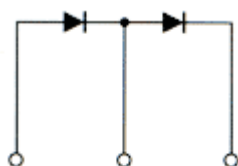
Diode Modules

$$I_{FAV} = 100A$$

MDC 100

$$V_{RRM} = 1000-2400V$$

V_{RRM} (V)	V_{RSM} (V)	TYPE
1000	1100	MDC100-10
1200	1300	MDC100-12
1600	1700	MDC100-16
1800	1900	MDC100-18
2200	2300	MDC100-22
2400	2500	MDC100-24



Maximum Ratings

Symbol	Item	Conditions	Ratings	Unit
$I_{F(AV)}$	Average Forward Current	Single phase, half wave, 180° conduction, $T_c=115^\circ C$	100	A
$I_{F(RMS)}$	R.M.S. Forward Current	Single phase, half wave, 180° conduction, $T_c=115^\circ C$	155	A
I_{FSM}	Surge Forward Current	1/2 cycle, 50/60Hz, peak value, non-repetitive	1800/2000	A
I_t^2	I_t^2	Value for one cycle of surge current	16500	$A^2 S$
T_j	Junction Temperature		-40 to +150	$^\circ C$
T_{stg}	Storage Temperature		-40 to +125	$^\circ C$
V_{iso}	Isolation Breakdown Voltage (R.M.S.)	Main Terminal to case 1minute	2500	V
M_d	Mounting torque	Mounting(M6)	Recommended Value 2.5-3.9 (25-40)	$N \cdot m(kgf \cdot cm)$
		Terminal(M5)	Recommended Value 1.5-2.5 (15-25)	



Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	$T_j=150^{\circ}\text{C}$ at V_{RRM} , Single phase, half wave	5.0	mA
V_{FM}	Forward Voltage Drop, max.	Forward current 100A, $T_j=25^{\circ}\text{C}$ Inst. measurement	1.25	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.3	$^{\circ}\text{C/W}$

