



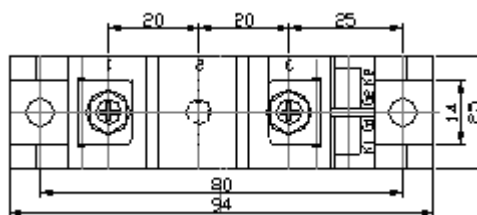
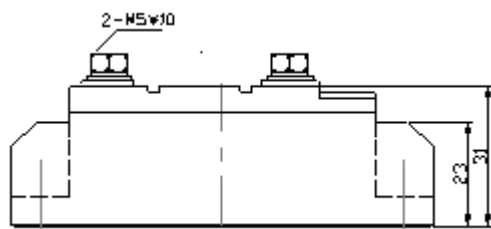
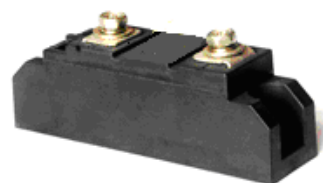
Diode Modules

MD 100

$$I_{FAV} = 100 \text{ A}$$

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

V_{RRM} (V)	V_{RSM} (V)	TYPE
1000	1100	MD100-10
1200	1300	MD100-12
1600	1700	MD100-16
1800	1900	MD100-18
2200	2300	MD100-22
2400	2500	MD100-24



Maximum Ratings

Symbol	Item		Conditions	Ratings	Unit
$I_{F(AV)}$	Average Forward Current		Single phase, half wave, 180° conduction, $T_c=109^\circ\text{C}$	100	A
$I_{F(RMS)}$	R.M.S. Forward Current		Single phase, half wave, 180° conduction, $T_c=109^\circ\text{C}$	157	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	16700	A^2S
T_j	Junction Temperature			-40 to +150	$^\circ\text{C}$
T_{stg}	Storage Temperature			-40 to +125	$^\circ\text{C}$
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)	4.7 (48)	$\text{N} \cdot \text{m} (\text{kgf} \cdot \text{cm})$
		Terminal(M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	



Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	$T_J=150^{\circ}\text{C}$ at V_{RRM} , Singe phase, half wave	6.0	mA
V_{FM}	Forward Voltage Drop, max.	Foward current 100A, $T_J=25^{\circ}\text{C}$ Inst. measurement	1.15	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.35	$^{\circ}\text{C/W}$

