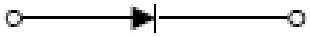
# Diode Modules

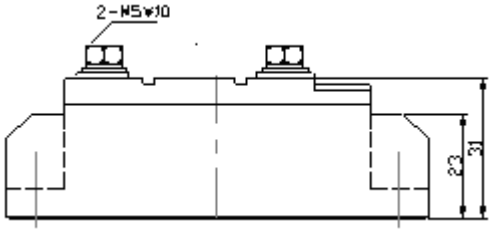
## MD 100

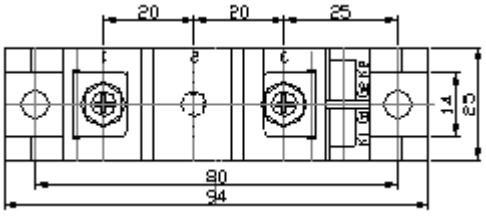
$I_{FAV}$ = 100 A

$V_{RRM}$ = 1000-2400V

| $V_{RRM}$ (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℃ | 100 | A |
| $I_{F(RMS)}$ | R.M.S.Forward Current | | Single phase,half wave, 180° conduction, $T_C$=109℃ | 157 | A |
| $I_{FSM}$ | Surge Forward Current | | 1/2 cycle, 50/60Hz, peak value, non-repetitive | 1800/2000 | A |
| $I^2t$ | $I^2t$ | | Value for one cycle of surge current | 16700 | $A^2S$ |
| $T_j$ | Junction Temperature | | | -40 to +150 | ℃ |
| $T_{stg}$ | Storage Temperature | | | -40 to +125 | ℃ |
| $V_{ISO}$ | 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) | N·m(kgf·cm) |
| | | Terminal(M5) | Recommended Value1.5-2.5(15-25) | 2.7(28) | |

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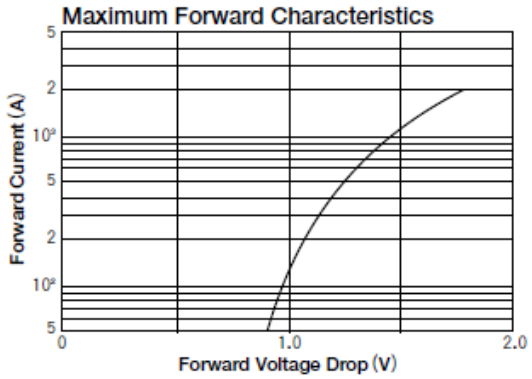
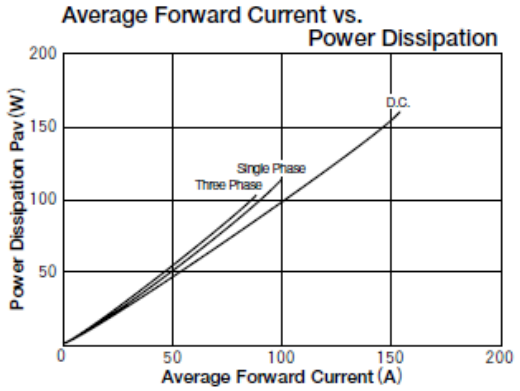
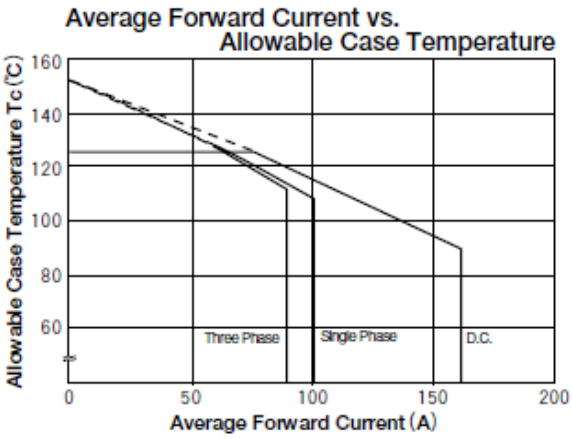
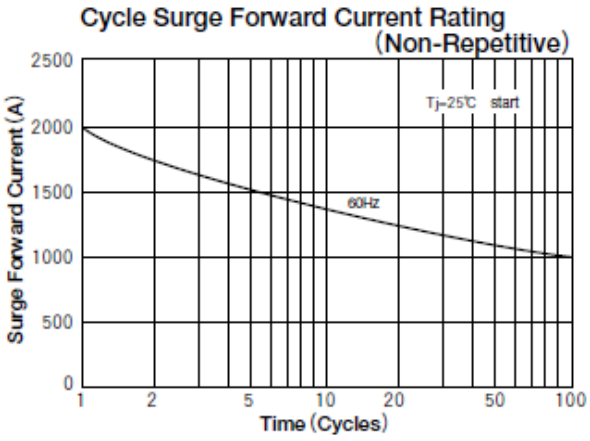
## Electrical Characteristics

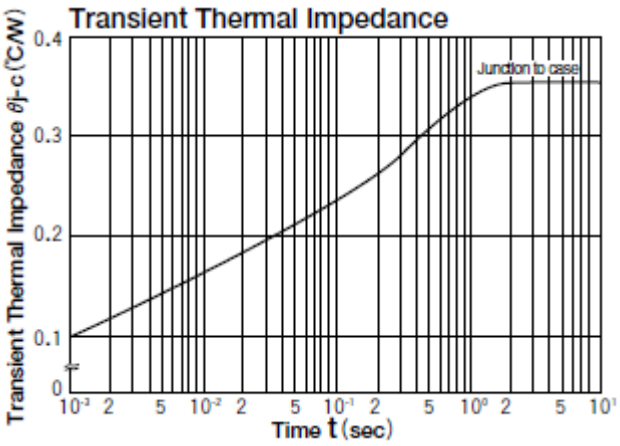
| Symbol | Item | Conditions | Ratings | Unit |
|---|---|---|---|---|
| $I_{RRM}$ | Repetitive Peak Reverse Current, max. | $T_j$=150℃ at $V_{RRM}$,Singe phase,half wave | 6.0 | mA |
| $V_{FM}$ | Forward Voltage Drop, max. | Foward current 100A，$T_j$=25℃<br>Inst. measurement | 1.15 | V |
| $R_{th(j-c)}$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

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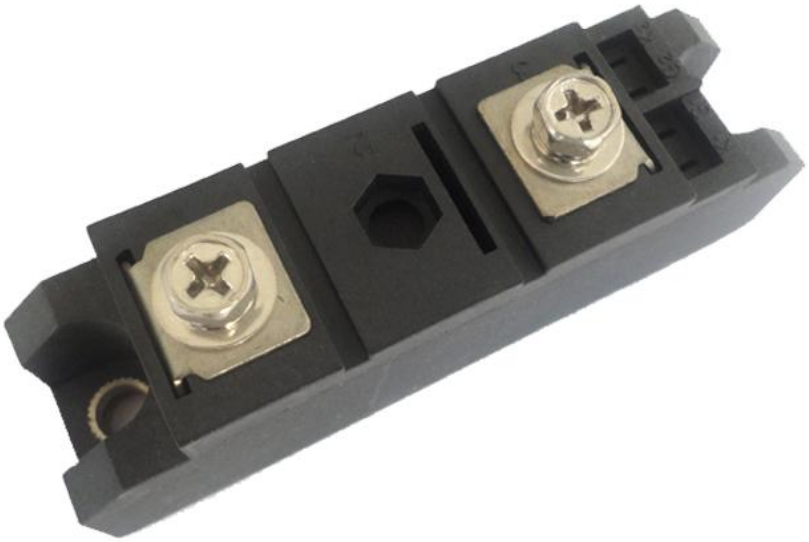

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