

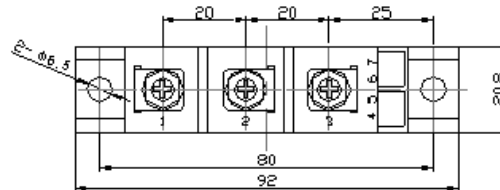
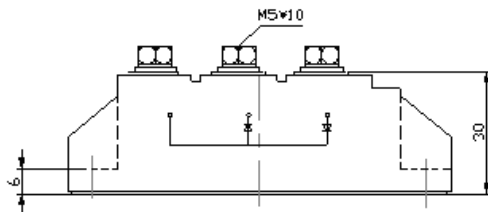
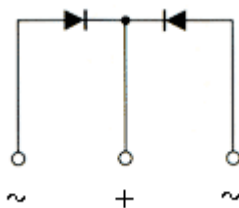
Diode Modules

$$I_{FAV} = 55 A$$

MDK 55

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

V_{RRM} (V)	V_{RSM} (V)	TYPE
1000	1100	MDK55-10
1200	1300	MDK55-12
1600	1700	MDK55-16
1800	1900	MDK55-18
2200	2300	MDK55-22
2400	2500	MDK55-24



Maximum Ratings

Symbol	Item	Conditions	Ratings	Unit
$I_{F(AV)}$	Average Forward Current	Single phase, half wave, 180° conduction, $T_c=114^\circ C$	55	A
$I_{F(RMS)}$	R.M.S. Forward Current	Single phase, half wave, 180° conduction, $T_c=114^\circ C$	86	A
I_{FSM}	Surge Forward Current	1/2 cycle, 50/60Hz, peak value, non-repetitive	1100/1200	A
I_t^2	I_t^2	Value for one cycle of surge current	6000	$A^2 S$
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

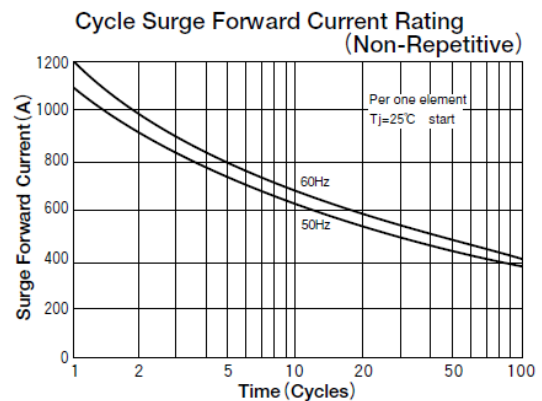
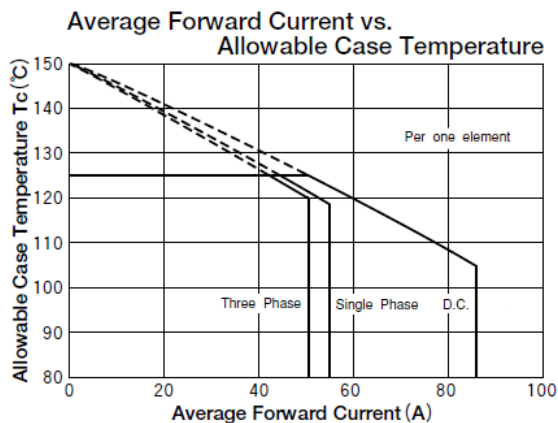
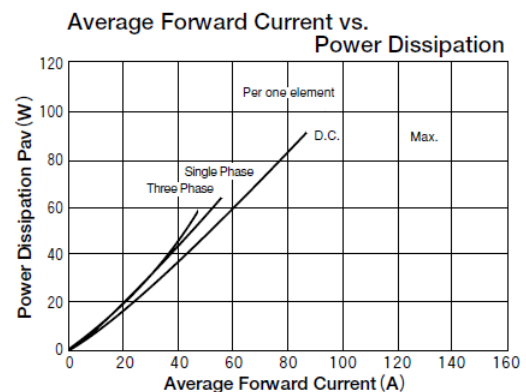
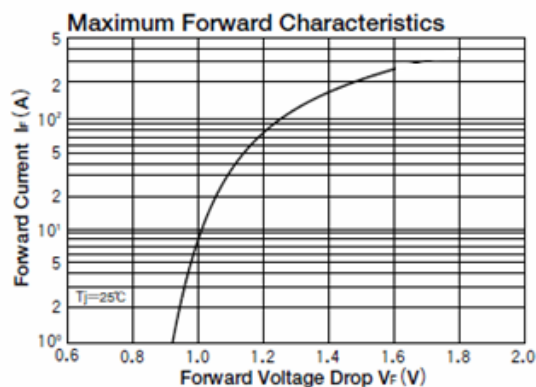


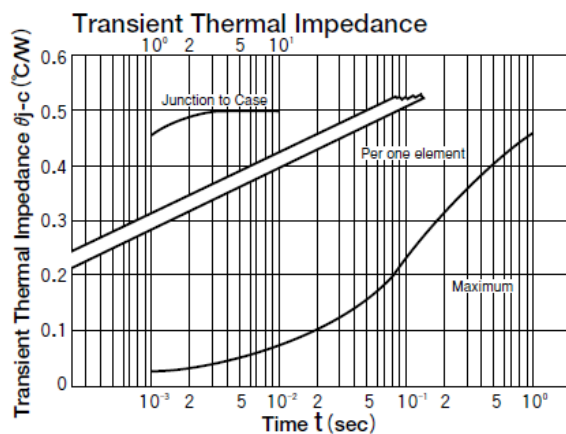
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M _d	Mounting torque	Mounting(M6)	Recommended Value 2.5-3.9 (25-40)	4.7 (48)	N m(kgf cm)
		Terminal(M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I _{RRM}	Repetitive Peak Reverse Current, max.	T _j =150 °C at V _{RRM} , Single phase, half wave	4.0	mA
V _{FM}	Forward Voltage Drop, max.	Forward current 55A, T _j =25 °C Inst. measurement	1.16	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.5	°C/W





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