DIODE MODULE
DD200KB

Power Diode Module **DD200KB** Series are designed for various rectifier circuits. **DD200KB** has two diode chips connected in series and the mounting base is electrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1600V is available for various input voltages.

● Isolated mounting base
● Two elements in a package for simple (single and three phase) bridge connections
● Highly reliable glass passivated chips
● High surge current capability

（**Applications**）
● Various rectifiers, Battery chargers, DC motor drives
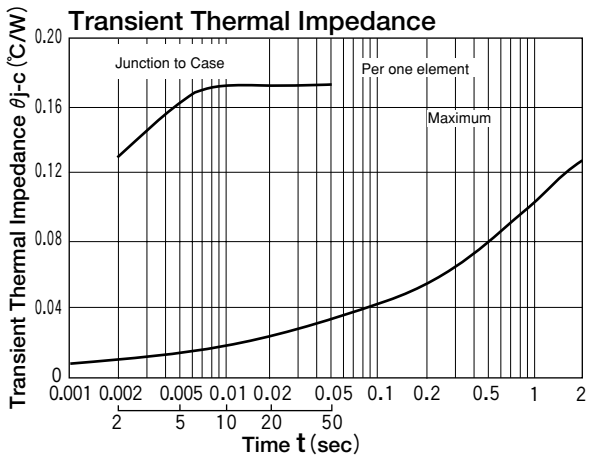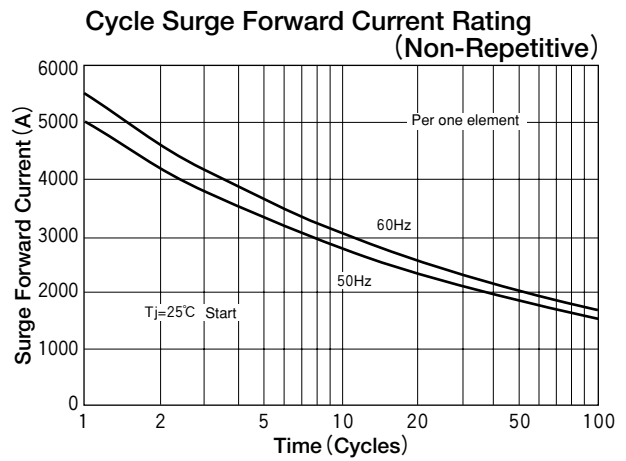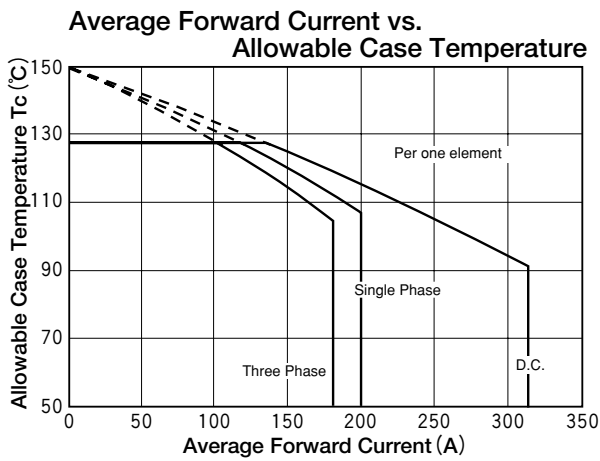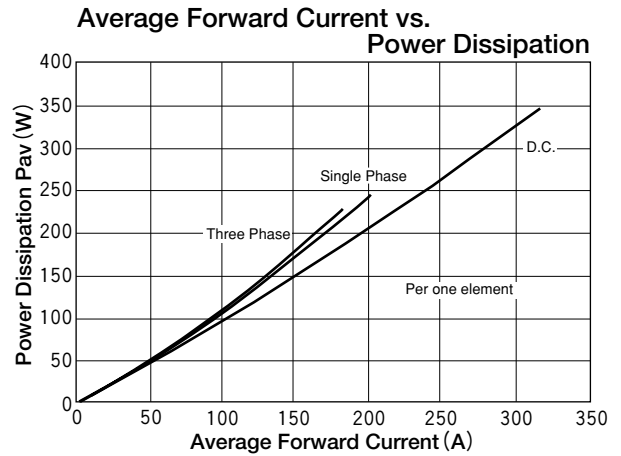

Unit：mm
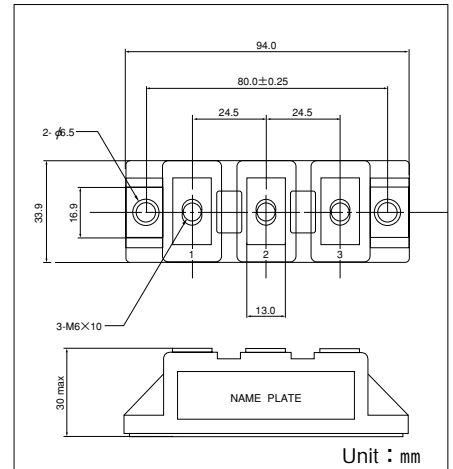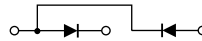
■Maximum Ratings

(Tj＝25℃ unless otherwise specified)

Symbol	Item	Ratings				Unit
		DD200KB40	DD200KB80	DD200KB120	DD200KB160	
V$_{RRM}$	Repetitive Peak Reverse Voltage	400	800	1200	1600	V
V$_{RSM}$	Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V

Symbol	Item		Conditions	Ratings	Unit
I$_{F(AV)}$	Average Forward Current		Single phase, half wave, 180℃ conduction, Tc=106℃	200	A
I$_{F(RMS)}$	R.M.S. Forward Current		Single phase, half wave, 180℃ conduction, Tc=106℃	310	A
I$_{FSM}$	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	5000/5500	A
I²t	I²t		Value for one cycle of surge current	125000	A²S
Tj	Operating Junction Temperature			−40 to ＋150	℃
Tstg	Storage Temperature			−40 to ＋125	℃
V$_{ISO}$	Isolation Breakdown Voltage（R.M.S.）		A.C. 1minute	2500	V
	Mounting Torque	Mounting（M6）	Recommended Value 2.5-3.9（25-40）	4.7（48）	N・m (kgf・cm)
		Terminal（M6）	Recommended Value 2.5-3.9（25-40）	4.7（48）	
	Mass		Typical Value	240	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I$_{RRM}$	Repetitive Peak Reverse Current, max.	T$_j$＝150℃，V$_R$＝V$_{RRM}$	50	mA
V$_{FM}$	Forward Voltage Drop, max.	T$_j$＝25℃，I$_F$＝620A	1.30	V
Rth（j-c）	Thermal Impedance, max.	Junction to case	0.17	℃/W

Maximum Forward Characteristics

Forward Current (A) vs Forward Voltage Drop (V)

Per one element
Tj=25℃
Maximum

Average Forward Current vs. Power Dissipation

Power Dissipation Pav (W) vs Average Forward Current (A)

D.C.
Single Phase
Three Phase
Per one element

Average Forward Current vs. Allowable Case Temperature

Allowable Case Temperature Tc (℃) vs Average Forward Current (A)

Per one element
Single Phase
Three Phase
D.C.

Cycle Surge Forward Current Rating (Non-Repetitive)

Surge Forward Current (A) vs Time (Cycles)

Per one element
60Hz
50Hz
Tj=25℃ Start

Transient Thermal Impedance

Transient Thermal Impedance θj-c (℃/W) vs Time t (sec)

Junction to Case
Per one element
Maximum

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25.330.4753.1 25.330.5253.1 25.334.3253.1 25.334.3353.1 25.350.2053.0 25.352.4753.1 25.522.3253.0 T483C T484C T485F T485H
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25.332.4353.1 25.350.1653.0 25.350.2453.0 25.352.1453.0 25.352.1653.0 25.352.2453.0 25.352.5453.1 25.522.3353.0 25.602.4053.0
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