# **DIODE MODULE (F.R.D.)**

# **DD250HB**

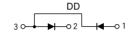
UL;E76102(M)

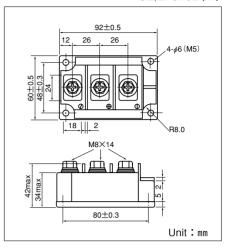
Power Diode Module **DD250HB** series are designed for various rectifier circuits. **DD250HB** has two diode chips connected in series in a package and the mounting base is electrically isolated from elements for simple heatsink construction. Wide voltage rating up to 1,600V is available for various input voltage.

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

## (Applications)

Various rectifiers, Bettery chargers, DC motor drives





#### Maximum Ratings

(Tj=25℃ unless otherwise specified)

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Symbol	Item	Ratings		
		DD250HB120	DD250HB160	Unit
Vrrm	Repetitive Peak Reverse Voltage	1200	1600	V
Vrsm	Non-Repetitive Peak Reverse Voltage	1350	1700	V

Symbol	li	tem	Conditions	Ratings	Unit
lf(AV)	Average Forward Current		Single phase, half wave, 180°C conduction, Tc: 94°C	250	Α
IF(RMS)	R.M.S. Forward Current		Single phase, half wave, 180°C conduction, Tc: 94°C	390	Α
IFSM	Surge Forward Current		$\frac{1}{2}$ cycle, 50/60Hz, peak value, non-repetitive	5000/5500	Α
l²t	I²t		Value for one cycle of surge current	125000	A <sup>2</sup> S
Tj	Operating Junction Temperature			−40 to +150	°C
Tstg	Storage Temperature			−40 to +125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N∙m
		Terminal (M8)	Recommended Value 8.8-10 (90-105)	11 (115)	(kgf·cm)
	Mass		Typical Value	510	g

### **■**Electrical Characteristics

Symbol	Item	Conditions		Ratings		
				Тур.	Max.	Unit
IRRM	Repetitive Peak Reverse Current	Tj=150°C at VRRM			50	mA
VFM	Forward Voltage Drop	Tj=25°C, IFM=750A, Inst. measurement			1.45	V
Rth (j-c)	Thermal Impedance	Junction case			0.14	°C/W