## **DIODE MODULE**

## **DD160F**







UL;E76102 (M)

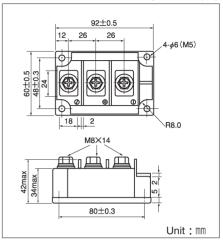
Power Diode Module **DD160F** series are designed for various rectifier circuits. **DD160F** has two diode chips connected in series in a package and the mounting base is elctrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1,600V is avaiable for various input voltage.

- 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





■Maximum Ratings (Tj=25°C)

Symbol	Item	Ratings				Linit
		DD160F40	DD160F80	DD160F120	DD160F160	Unit
VRRM	Repetitive Peak Reverse Voltage	400	800	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V

Symbol	l1	tem	Conditions	Ratings	Unit
IF (AV)	Average Forward Current		Single phase, half wave, 180° conduction, Tc:87°C	160	Α
IF (RMS)	R.M.S. Forward Current		Single phase, half wave, 180° conduction, Tc:87°C	250	Α
IFSM	Surge Forward Current		½ 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
Viso	Isolation Breakdown Voltage (R.M.S)		A.C.1minute	2500	V
Tj	Junction Temperature			<b>−</b> 40∼ <b>+</b> 125	°C
Tstg	Storage Temperature			<b>−</b> 40∼ <b>+</b> 125	°C
	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			510	g

## **■**Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	at VDRM, single phase, half wave. Tj=125℃	50	mA
VFM	Forward Voltage Drop, max.	Forward current 500A, Tj=25°C, Inst. measurement	1.42	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.18	°C/W







