## **DIODE** (THREE PHASES BRIDGE TYPE)

# **DF60BA40/80**

UL;E76102(M)

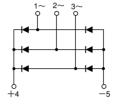
Power Diode Module **DF60BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction Output DC current is 60Amp (Tc=115°C) Repetitive peak reverse voltage is up to 800V.

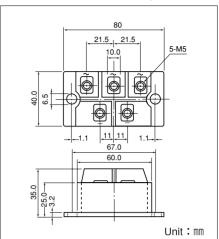
- TiMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation

#### (Applications)

AC. DC Motor Drive/AVR/Switching

—for three phase rectification





#### ■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	ltom	Ratings		Unit
	Item	DF60BA40	DF60BA80	Offic
Vrrm	Repetitive Peak Reverse Voltage	400	800	V
Vrsm	Non-Repetitive Peak Reverse Voltage	480	960	V

Symbol	li li	tem	Conditions	Ratings	Unit
lo	Output current (D.C.)		Three phase. full wave. Tc=115℃	60	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	910/1000	Α
Tj	Junction Temperature			−40 to +150	$^{\circ}$
Tstg	Storage Temperature			−40 <b>to</b> +125	$^{\circ}$
Viso	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1minute	2500	V
	Mounting Torque	Mounting (M6)	Recommended Value 2.5-3.9 (25-40)	4.7 (48)	N·m
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	200	g

### **■**Electrical Characteristics

Symbol	Item	Conditions		Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150°C at VRRM	6.0	mA
VFM	Forward Voltage Drop, max.	IFM=60A, Tj=25°C Inst. measurement	1.2	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W