DIODE(THREE PHASES BRIDGE TYPE)

DF40BA40/80







UL;E76102(M)

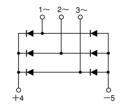
Power Diode Module **DF40BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 40 Amp (Tc=119°C) Repetitive peak reverse voltage is up to 800 V.

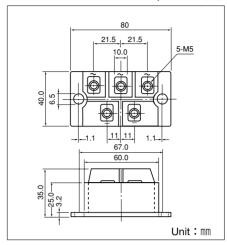
- TjMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation

(Applications)

AC. DC Motor Drive/AVR/Switching

—for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Itam	Ratings		Unit
	Item	DF40BA40	DF40BA80	Onit
VRRM	Repetitive Peak Reverse Voltage	400	800	V
Vrsm	Non-Repetitive Peak Reverse Voltage	480	960	V

Symbol	l1	tem	Conditions	Ratings	Unit
lo	Output current (D.C.)		Three phase. full wave. Tc=119℃	40	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	640/700	Α
Tj	Junction Temperature			−40 to +150	$^{\circ}$
Tstg	Storage Temperature			−40 to +125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1minute	2500	٧
	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	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150°C at VRRM	4.0	mA
VFM	Forward Voltage Drop, max.	IFM=40A, Tj=25°C Inst. measurement	1.2	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.32	°C/W

DF40BA40/80







