

FDF60BA60

UL; E76102

《Features》

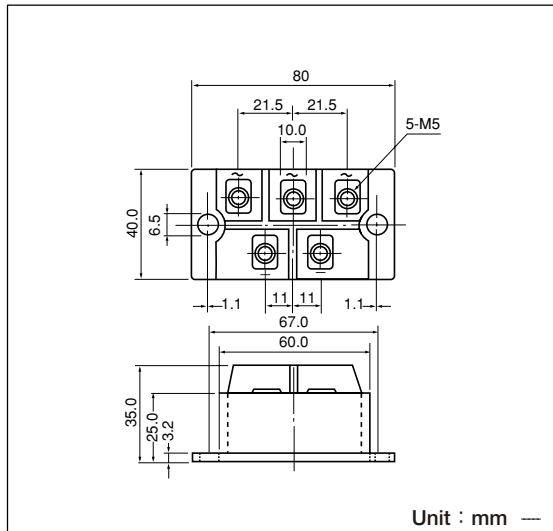
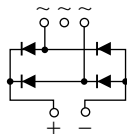
FDF60BA is designed for single phase full wave rectification, which has four fast recovery diodes connected in a single phase bridge configuration.

FDF60BA is suitable for high frequency application requiring low loss and high speed control.

- High Speed $t_{rr} \leq 100\text{ns}$
- Output Current, DC60A
- Isolated Mounting base

《Applications》

- Switching Power Supply / Inverter Welding Power Supply / Power Supply for Telecommunication



Unit : mm

■ Maximum Ratings (T_j=25°C unless otherwise specified)

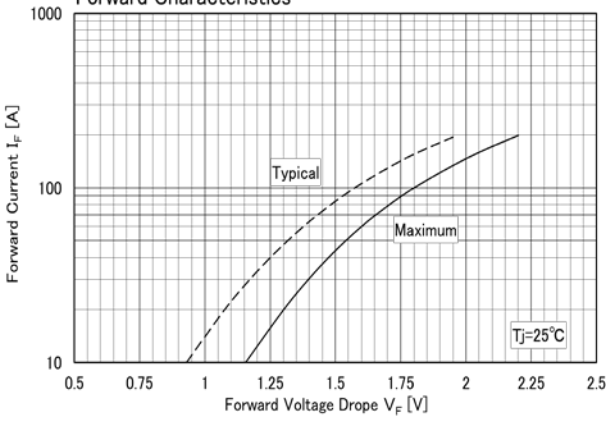
Item	Symbol	Unit	FDF60BA60
Repetitive Peak Reverse Voltage	V _{RRM}	V	600
Reverse D.C. Voltage	V _{R(DC)}	V	480

Item	Symbol	Unit	Ratings	Conditions
Output Current	I _D	A	60	D.C. T _c =80°C
Surge Forward Current	I _{FSM}	A	600	1/2cycle, 60Hz, Peak value, non-repetitive
I ² t(for fusing)	I ² t	A ² s	1490	Value for one cycle of surge current
Junction Temperature	T _j	°C	-40 to +150	
Storage Temperature	T _{stg}	°C	-40 to +125	
Isolation Voltage(R.M.S.)	V _{ISO}	V	2500	A.C. 1minute
Mounting torque	Mounting M6	N·m (kgf·cm)	4.7(48)	Recommended Value 2.5 to 3.9 (25 to 40)
	Terminal M5		2.7(28)	Recommended Value 1.5 to 2.5 (15 to 25)
Mass		g	200	Typical Value

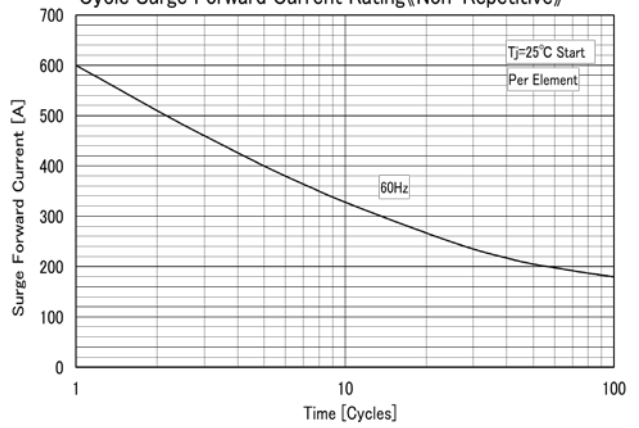
■ Electrical Characteristics (T_j=25°C unless otherwise specified)

Item	Symbol	Unit	Ratings			Conditions
			Min.	Typ.	Max.	
Repetitive Peak Reverse Current	I _{RRM}	mA			60	V _R =V _{RRM} , T _j =125°C
Forward Voltage Drop	V _{FM}	V		1.40	1.60	I _F =60A, Inst. measurement
Reverse Recovery time	t _{rr}	ns		85	100	I _F =60A, -di/dt=100A/μs
Thermal Resistance(Junction to case)	R _{th}	°C/W			0.36	1 module

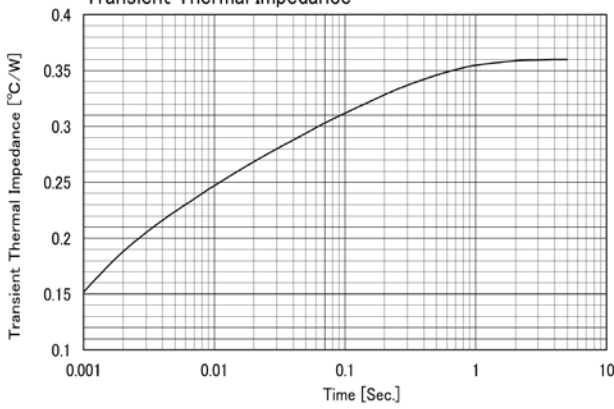
Forward Characteristics



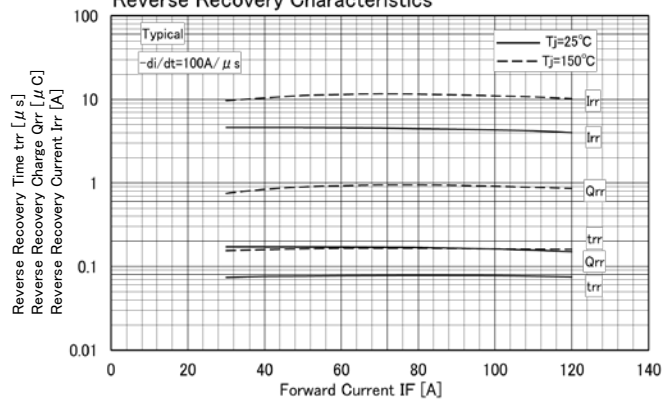
Cycle Surge Forward Current Rating (Non-Repetitive)



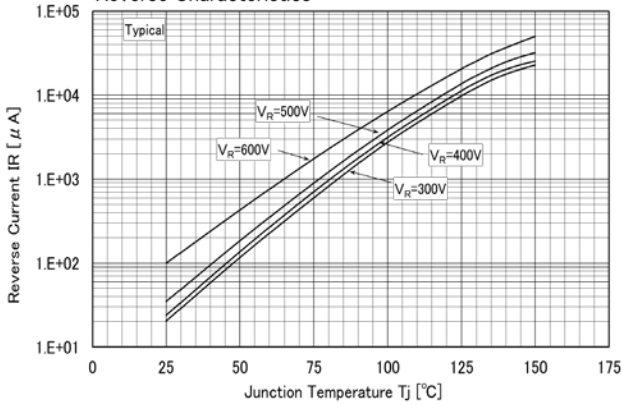
Transient Thermal Impedance



Reverse Recovery Characteristics



Reverse Characteristics



Reverse Recovery Characteristics

