DIODE MODULE

DD60KB

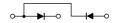
UL;E76102(M)

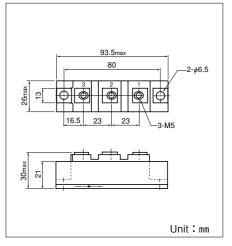
Power Diode Module **DD60KB** Seriess are designed for various rectifier circuits. **DD60KB** has two diode chips connected in series and the mounting base is electrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1600V is available for various input voltages.

- 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

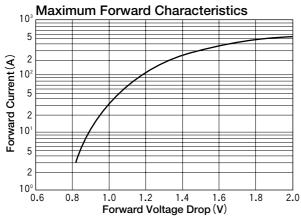
(Tj=25℃ unless otherwise specified)

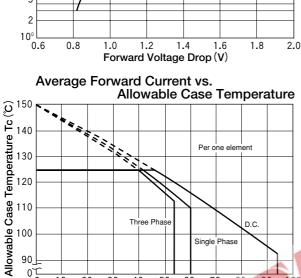
Symbol	lto	Ratings		I I to it
	Item	DD60KB80	DD60KB160	Unit
VRRM	Repetitive Peak Reverse Voltage	800	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	960	1700	V

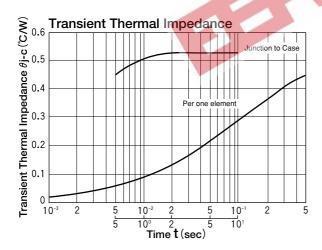
Symbol	Item Conditions		Ratings	Unit	
lf(AV)	Average Forward Current		Single phase, half wave, 180°C conduction, Tc=110°C	60	Α
IF(RMS)	R.M.S. Forward Current		Single phase, half wave, 180°C conduction, Tc=110°C	95	Α
IFSM	Surge Forward Current		½cycle, 50/60Hz, peak value, non-repetitive	1100/1200	Α
l²t	I²t		Value for one cycle of surge current	6000	A ² S
Tj	Operating Junction Temperature		−40 to +150	°C	
Tstg	Storage Temperature		−40 to +125	$^{\circ}$	
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1minute	2500	V
	Mounting	Mounting (M6)	Recommended Value 2.5-3.9 (25-40)	4.7 (48)	N·m
	Torque	Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	170	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	at VRRM Single phase, half wave, Tj=150℃	20	mA
VFM	Forward Voltage Drop, max.	Forward current 180A, Inst measurement	1.35	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.52	°C/W







Average Forward Current (A)

0 0

