DIODE MODULE

DD70F/KD70F







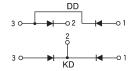
UL;E76102 (M)

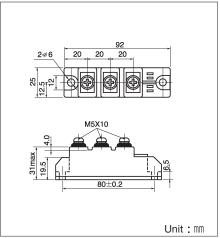
Power Diode Module **DD70F** series are designed for various rectifier circuits. **DD70F** has two diode chips connected in series in 25mm (1inch) width package and the mounting base is elctrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1600V is available 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	Itam	Ratings				Linit
	Item	DD70F40	DD70F80	DD70F120	DD70F160	Unit
VRRM	Repetitive Peak Reverse Voltage	400	800	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V

Symbol	l:	Item Conditions		Ratings	Unit
IF(AV)	Average Forward Current		Single phase, half wave, 180° conduction, Tc:94℃	70	Α
IF (RMS)	R.M.S. Forward Current		Single phase, half wave, 180° conduction, Tc:94℃	110	Α
IFSM	Surge Forward Current		½ cycle, 50/60Hz, peak value, non-repetitive	1800/1950	Α
l²t	I²t		Value for one cycle of surge current	16200	A ² S
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C.1minute	2500	V
Tj	Junction Temperature			− 40∼ + 125	$^{\circ}$
Tstg	Storage Temperature			− 40∼ + 125	$^{\circ}$
	Mounting	Mounting (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	N ·m
	Torque	Terminal (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	(kgf·cm)
	Mass			170	g

■Electrical Characteristics

Electrical Characteristics								
Symbol	Item	Conditions	Ratings	Unit				
IRRM	Repetitive Peak Reverse Current, max.	at VDRM, single phase, half wave. Tj=125℃	15	mA				
VFM	Forward Voltage Drop, max.	Forward current 220A, Tj=25°C, Inst. measurement	1.40	V				
Rth(j-c)	Thermal Impedance, max.	Junction to case	0.33	°C/W				

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