DIODE MODULE DD90F/KD90F

Power Diode Module **DD90F** series are designed for various rectifier circuits. **DD90F** has two diode chips connected in series in 25mm (1inch) width package and the mounting base is electrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1600V is avaiable 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

Symbol	Item	Ratings				Unit
		DD90F40	DD90F80	DD90F120	DD90F160	Unit
VRRM	Repetitive Peak Reverse Voltage	400	800	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V

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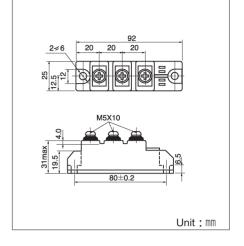
Symbol	ľ	Item Conditions		Ratings	Unit
IF (AV)	Average Forward Current		Single phase, half wave, 180° conduction, Tc: 93°C	90	Α
F (RMS)	R.M.S. Forward Current		Single phase, half wave, 180° conduction, Tc:93℃	140	A
FSM	Surge Forward Current		1/2 cycle, 50/60Hz, peak value, non-repetitive	2100/2300	A
l²t	l²t		Value for one cycle of surge current	22000	A ² S
Viso	Isolation Breakdown Voltage (R.M.S)		A.C.1minute	2500	V
Tj	Junction Temperature			-40~+125	°C
Tstg	Storage Temperature			-40~+125	°C
	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

Symbol	Item	Conditions	Ratings	Unit
Irrm	Repetitive Peak Reverse Current, max.	at VDRM, single phase, half wave. Tj=125℃	20	mA
Vfm	Forward Voltage Drop, max.	Forward current 285A, Tj=25°C, Inst. measurement	1.40	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.27	°C\M

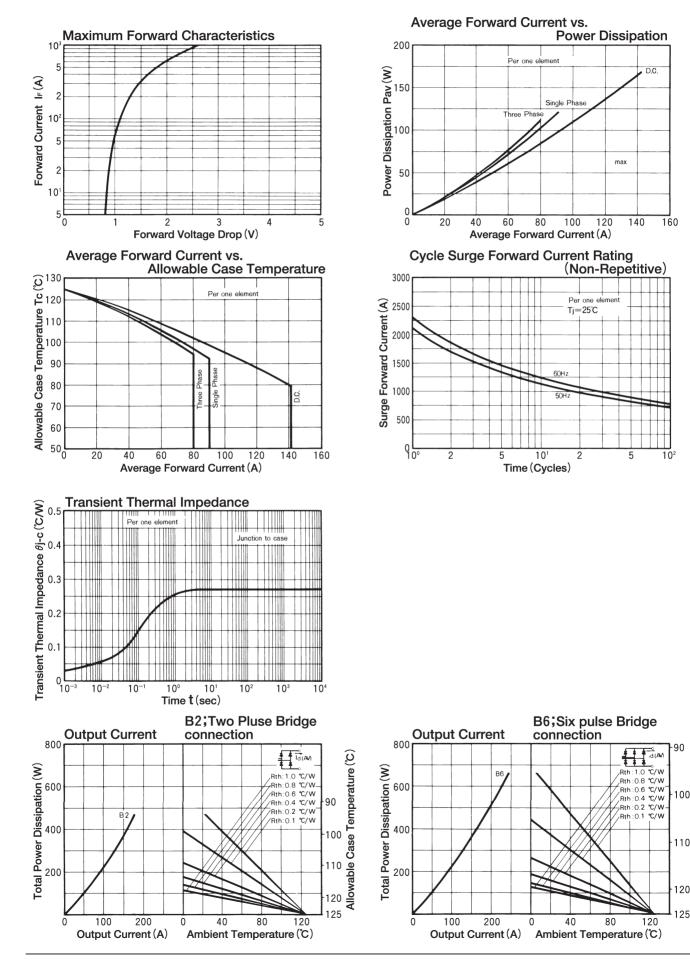


UL;E76102 (M)



(Tj=25℃)





SANSHA ELECTRIC

Allowable Case Temperature (C)