

# Moulded Module Assembly

## PBD 90

(Diode - Diode Module)



## Technical Data

Typical applications : Non Controllable rectifiers for AC/AC convertors, Field supply for DC motors, Line rectifiers for transistorized AC motor controllers.

Type No.	$V_{RRM}$ (Volts)	$V_{RSM}$ (Volts)
PBD 90/04	400	500
PBD 90/06	600	700
PBD 90/08	800	900
PBD 90/10	1000	1100
PBD 90/12	1200	1300
PBD 90/14	1400	1500
PBD 90/16	1600	1700

### Features

- Heat transfer through ceramic isolated Cu base
- Isolation between contacts & mounting base is 2.5KV(rms)
- Weight 120 gm (Approx)

Symbol	Conditions	Values
$I_{F(AV)}$	Sin 180 ; Tcase = 85 °C	100 A
$I_{FSM}$	Tvj = 25 °C; Half Sine; 10 ms; 0 $V_{RRM}$	2500 A
	Tvj = 125 °C; Half Sine; 10 ms; 0 $V_{RRM}$	2000 A
$I^2t$	Tvj = 25 °C; Half Sine; 10 ms	31250 A <sup>2</sup> s
	Tvj = 125 °C; Half Sine; 10 ms	20000 A <sup>2</sup> s
$V_F$	Tvj = 25 °C ; $I_F = 300$ A	1.35V max
$V_O$	Tvj = 125 °C	0.85V
$R_0$	Tvj = 125 °C	1.30 m
$I_{DRM}$	Tvj = 125 °C	10 mA max
$R_{th(j-c)}$	per diode / per module	0.35/0.175 °C/W
$R_{th(c-h)}$	per diode / per module	0.20/0.10 °C/W
$T_{vj}$		+ 125 °C
$T_{stg}$		-40.....+ 125 °C
$V_{ISOL}$	A.C. 50 Hz: r.m.s.; 1sec	3.0 KV
	A.C. 50 Hz: r.m.s.; 1min	2.5 KV

