

Moulded Module Assembly

PBD 25

(Diode - Diode Module)



USHA
(INDIA) LTD

Technical Data

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

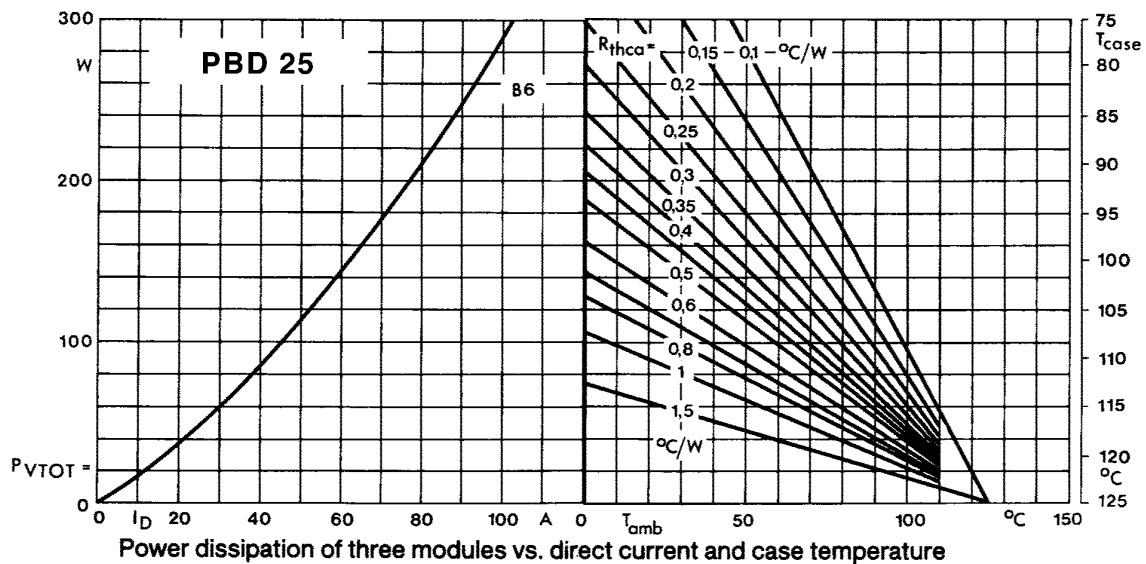
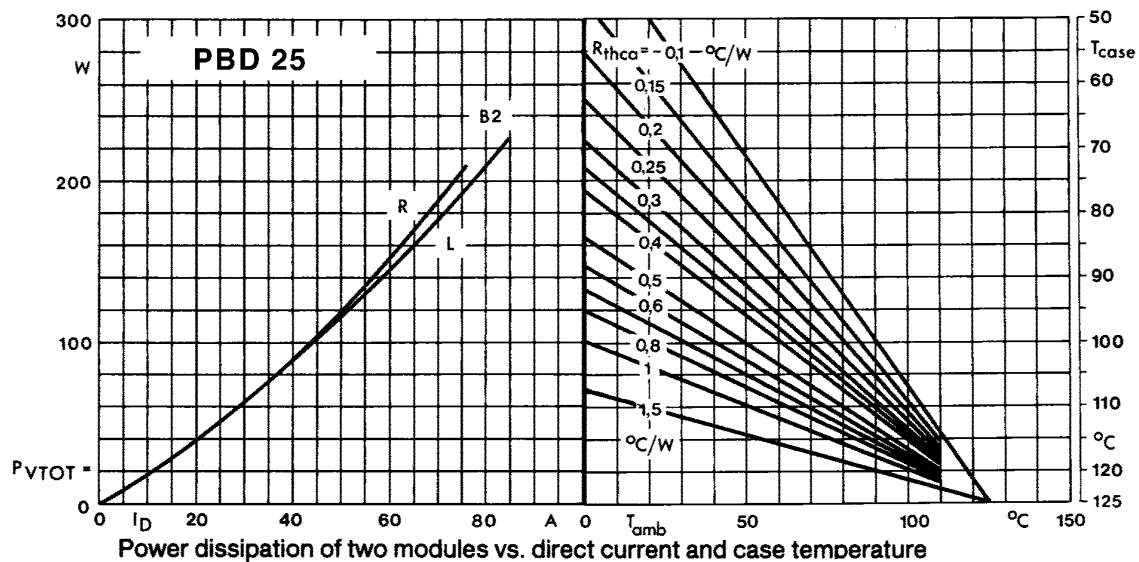
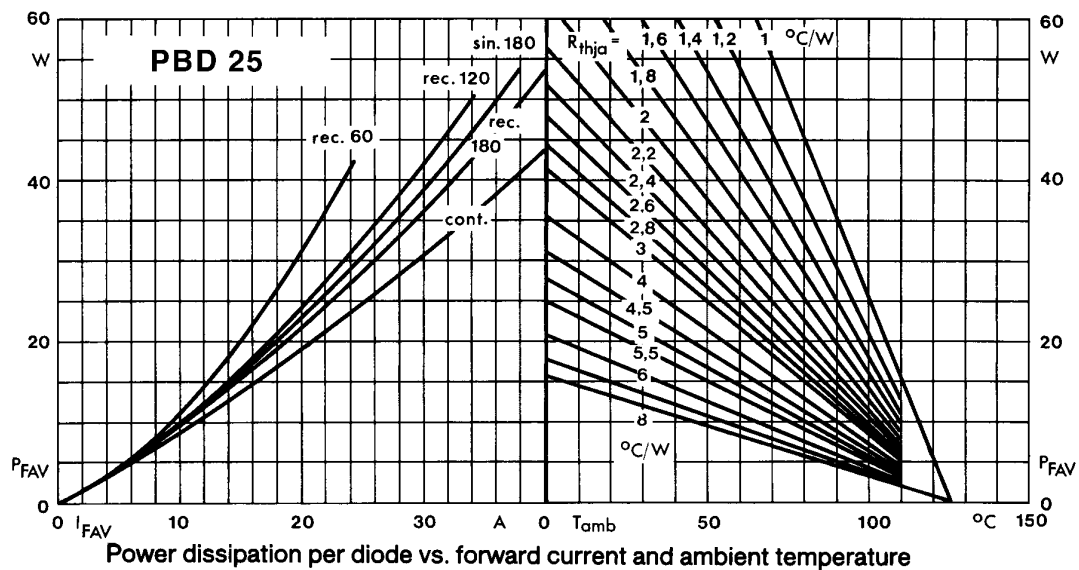
Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
PBD 25/04	400	500
PBD 25/06	600	700
PBD 25/08	800	900
PBD 25/10	1000	1100
PBD 25/12	1200	1300
PBD 25/14	1400	1500
PBD 25/16	1600	1700

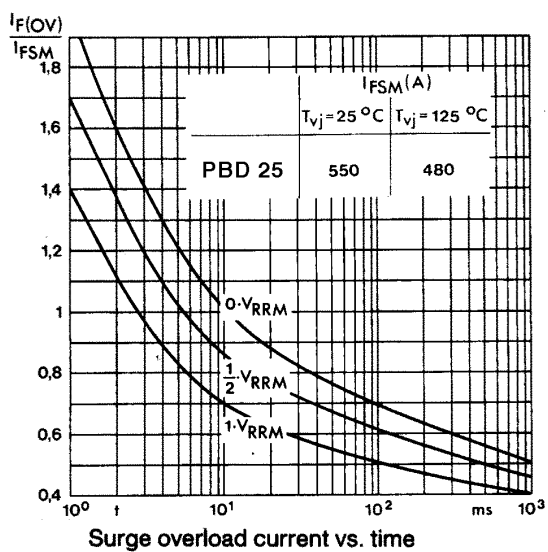
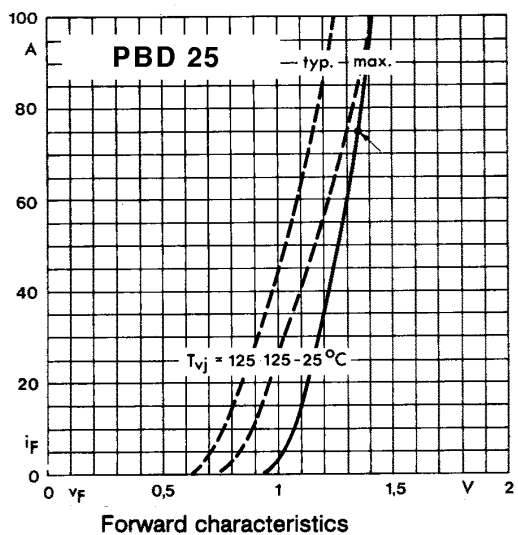
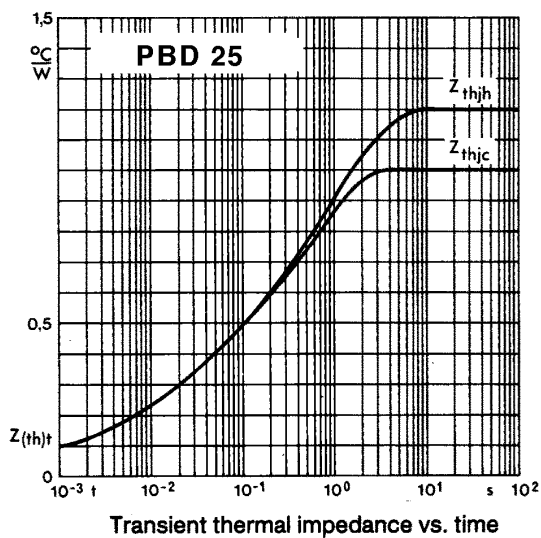
Features

- 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 = 93 °C	25 A
I_{FSM}	Tvj = 25 °C; Half Sine; 10 ms; 0 V _{RRM} Tvj = 125 °C; Half Sine; 10 ms; 0 V _{RRM}	550 A 480 A
I^2t	Tvj = 25 °C; Half Sine; 10 ms Tvj = 125 °C; Half Sine; 10 ms	1500 A ² s 1150 A ² s
V_F V_O R_0 I_{DRM}	Tvj = 25 °C ; I _F = 75 A Tvj = 125 °C Tvj = 125 °C Tvj = 125 °C	1.35V max 0.85V 6.0 mW 5 mA max
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	per diode / per module per diode / per module 	1.0/0.5 °C/W 0.20/0.10 °C/W + 125 °C -40.....+ 125 °C
V_{ISOL}	A.C. 50 Hz: r.m.s.; 1sec A.C. 50 Hz: r.m.s.; 1min	3.0 KV 2.5 KV

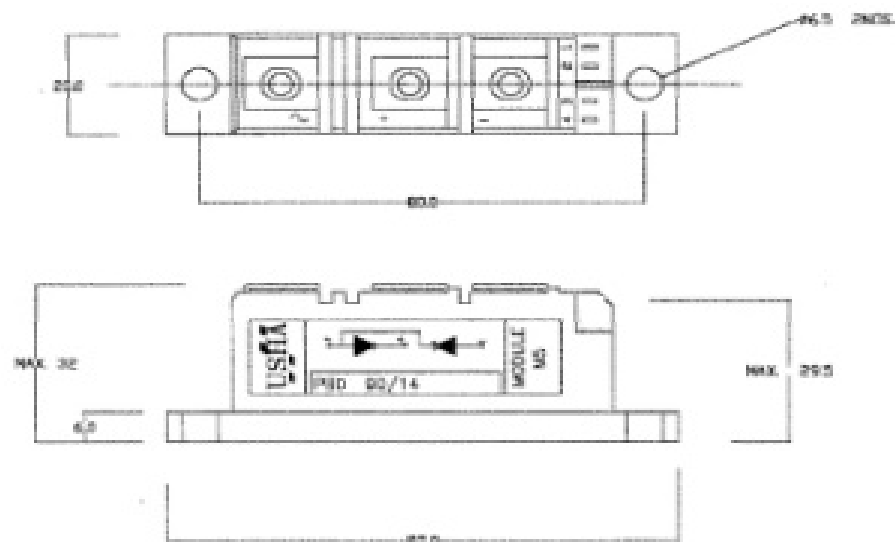






MECHANICAL DETAILS

ALL DIMENSION ARE IN mm



OUT LINE DIAGRAM FOR PBD

ALL DIMENSIONS IN MM
MOUNTING TORQUE CASE TO HEAT SINK = 5 N.M.
MOUNTING TORQUE BUSBARS TO TERMINALS = 3 N.M.

MOUNTING INSTRUCTIONS

- GREASE THE BASE PLATE WITH HEAT SINK COMPOUND BEFORE USE.
- MOUNTING TORQUE NOT TO EXCEED 4N_m FOR BOTH THE BOLTS.
- USE ONLY M5 SCREWS.