DBI 25 P



Power Bridge Rectifiers

DBI 25 P

Features

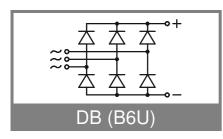
- Compact plastic package with in-line wire leads
- Ideal for printed circuit boards
- Allow easy heatsink mounting
- Solder temperature: 260°C max. (max. 5 s)
- Blocking voltage up to 2200 V
- High surge current
- Plastic material is UL 94V-0
 classified
- Standard packing: 54 pieces box

Typical Applications*

- 3 phase rectifier for power supplies
- Input rectifier for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 100 nF, 50 Ω (P_R = 1 W)

 Mounted on a 50 x 75 mm p.c.b.
 Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

3) Recommended V_{VRMS} values: $V_{VRMS} = V_{RRM} / 2,83$

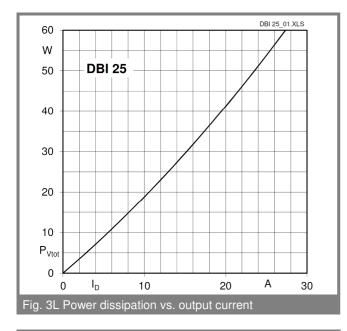


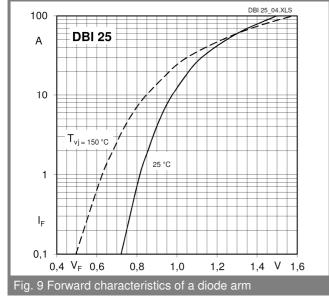
V _{RSM} , V _{RRM}	V _{VRMS}	I _D = 27 A (T _c = 32 °C)	C _{max}	${\sf R}_{\sf min}$
V	V	Types	µF	
400 800 1200 1600 1800 2200	280 560 800 1000 1100 1250	DBI 25-04 P DBI 25-08 P DBI 25-12 P DBI 25-16 P DBI 25-18 P DBI 25-22 P		0,3 0,7 1,5 1,8 2,2

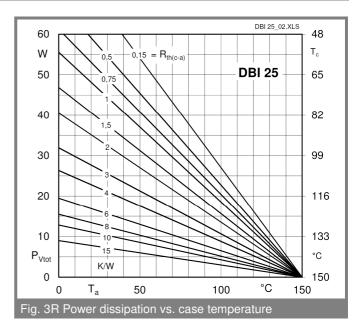
Symbol	Conditions	Values	Units
I _D I _{DCL}	$T_a = 44 \text{ °C}, P5A/100, \text{ natural cooling} T_a = 45 \text{ °C}, \text{ chassis}^{2)} T_a = 44 \text{ °C}, P5A/100, \text{ natural cooling} T_a = 45 \text{ °C}, \text{ chassis}^{2)} T_a = 45 \text{ °C}, \text{ isolated}^{1)} $	17 12 17 12 2,9	A A A A
I _{FSM} i ² t	$\begin{array}{l} T_{vi} = 25 \ ^{\circ}\text{C}, \ 10 \ \text{ms} \\ T_{vj} = 150 \ ^{\circ}\text{C}, \ 10 \ \text{ms} \\ T_{vj} = 25 \ ^{\circ}\text{C}, \ 8,3 \ \dots \ 10 \ \text{ms} \\ T_{vi} = 150 \ ^{\circ}\text{C}, \ 8,3 \ \dots \ 10 \ \text{ms} \end{array}$	370 310 680 480	$ \begin{array}{c} A \\ A \\ A^2 s \\ A^2 s \\ A^2 s \end{array} $
$\begin{array}{l} V_{F} \\ V_{(TO)} \\ r_{T} \\ I_{RD} \\ I_{RD} \\ t_{rr} \\ f_{G} \end{array}$	$\begin{array}{l} T_{vi} = 25^{\circ}C, \ I_{F} = 150 \ A \\ T_{vi} = 150^{\circ}C \\ T_{vj} = 150^{\circ}C \\ T_{vi} = 25^{\circ}C, \ V_{RD} = V_{RRM} \\ T_{vi} = 150^{\circ}C, \ V_{RD} = V_{RRM} \\ T_{vj} = 25^{\circ}C \end{array}$	max. 1,95 max. 0,85 max. 9 50 5 10 2000	V V μA mA Hz
$\begin{array}{l} R_{th(j-a)} \\ R_{th(i-c)} \\ R_{th(c-s)} \\ T_{vi} \\ T_{stg} \end{array}$	isolated ¹⁾ chassis ²⁾ total (from chips to bridge back side) total	20,5 4,5 1,7 0,15 -40+150 -55+150	K/W K/W K/W ¢C °C
V _{isol} M _s M _t a W	a.c. 5060 Hz; r.m.s.; 1s / 1 min. torque for mounting (M4 screw) approx.	3000 / 2500 2 ± 15% 13	V~ Nm Ms ² g
Fu			А
Case	40 x 21,5 x 6,4 mm plus 15 mm leads	DBI P	

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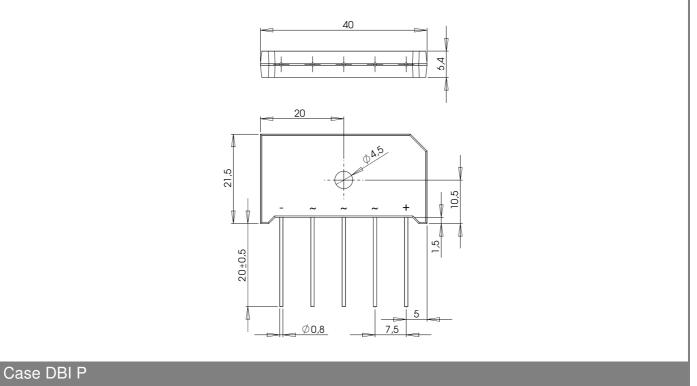




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Dimensions in mm



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