

Power Bridge Rectifiers

DBI 25

Features

- Isolated metal case 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 1600 V
- High surge current
- UL recognized, file no. E63532
- Lead-Free tinned terminals
- Standard packing: 54 pieces box

Typical Applications*

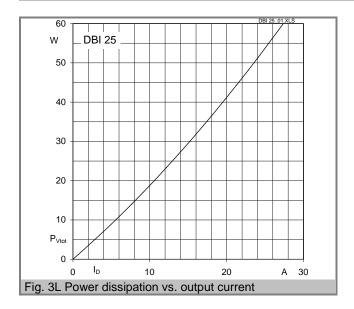
- 3 phase rectifier for power supplies
- Input rectifier for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 50 Ω , 0.1 μ F (P_R = 1 W)
- 1) Mounted on a 50 x 75 mm p.c.b.
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm
- 3) Recommended V_{VRMS} values: $V_{VRMS} = V_{RRM} / 2,83$

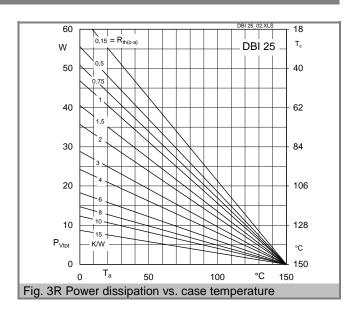
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DB (B6U)

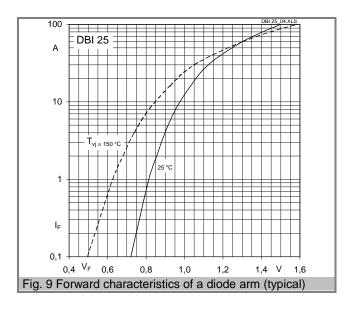
V_{RSM}, V_{RRM}	V _{VRMS} V	I _D = 25 A (T _c = 32 °C) Types	C _{max} µF	$R_{min} \Omega$
400	280	DBI 25-04		0,3
800	560	DBI 25-08		0,7
1200	800	DBI 25-12		1
1600	1000	DBI 25-16		1,5
1800	1250	DBI 25-18		1,8

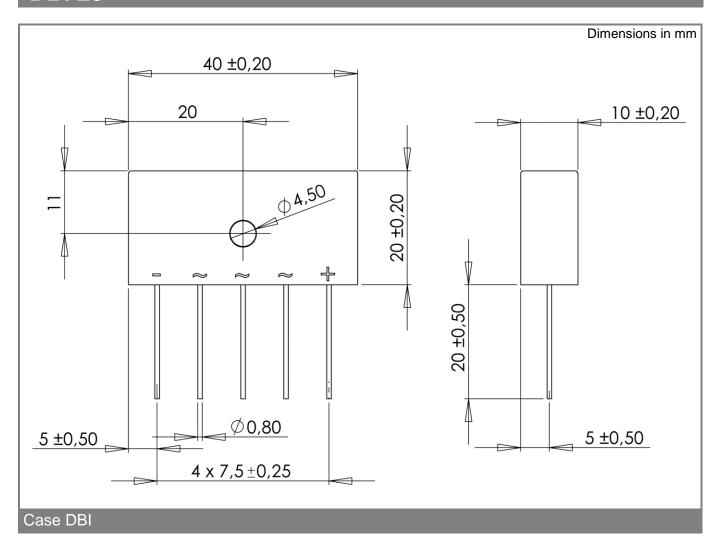
Symbol	Conditions	Values	Units
I _D	$T_a = 46$ °C, P1/120, natural cooling $T_a = 46$ °C, chassis ²⁾ $T_a = 46$ °C, P1/120, natural cooling $T_a = 46$ °C, chassis ²⁾ $T_a = 45$ °C, isolated ¹⁾	17 11 17 11 2,9	A A A A
I _{FSM}	T_{vi} = 25 °C, 10 ms T_{vi} = 150 °C, 10 ms T_{vi} = 25 °C, 8,3 10 ms T_{vj} = 150 °C, 8,3 10 ms	370 310 680 480	$ \begin{array}{c} A \\ A \\ A^2 s \\ A^2 s \end{array} $
$\begin{array}{c} V_F \\ V_{(TO)} \\ r_T \\ I_{RD} \\ I_{RD} \\ t_{rr} \\ f_G \end{array}$	$T_{vi} = 25^{\circ}\text{C}, I_F = 150 \text{ A}$ $T_{vj} = 150^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ $T_{vi} = 25^{\circ}\text{C}, V_{RD} = V_{RRM}$ $T_{vj} = 150^{\circ}\text{C}, V_{RD} = V_{RRM}$ $T_{vi} = 25^{\circ}\text{C}$	max. 2,2 max. 0,85 max. 9 50 5 10 2000	V V mΩ μA mA μs Hz
$R_{th(j\text{-}a)}$ $R_{th(i\text{-}c)}$ $R_{th(c\text{-}s)}$ T_{v_i} T_{stg}	isolated ¹⁾ chassis ²⁾ total (from chips to bridge back side) total	21 5 2,2 0,15 -40+150 -55+130	K/W K/W K/W °C °C
V _{isol} M _s M _t a	a.c. 5060 Hz; r.m.s.; 1s / 1 min. torque for mounting (M4 screw) approx.	3000 / 2500 2 ± 15% 21	V~ Nm Nm m/s²
Fu			Α
Case	40 x 20 x 10 mm plus leads = 20 mm	DBI	

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