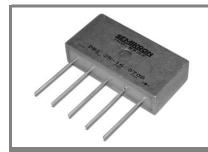
DBI 25



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
- Standard packing: 54 pieces box

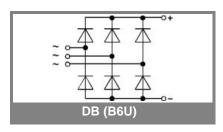
Typical Applications*

- 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.
- 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

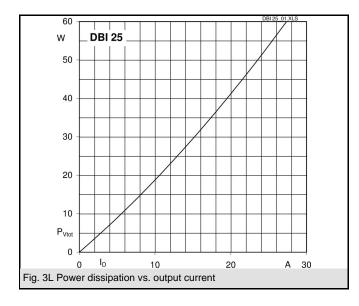
V _{RSM} , V _{RRM}	V _{VRMS}	I _D = 25 A (T _c = 32 °C) Types	C _{max} µF	R _{min}
200	140	DBI 25-02	P1	0,15
400	280	DBI 25-04		0,3
800	560	DBI 25-08		0,7
1200	800	DBI 25-12		1
1600	1000	DBI 25-16		1,5

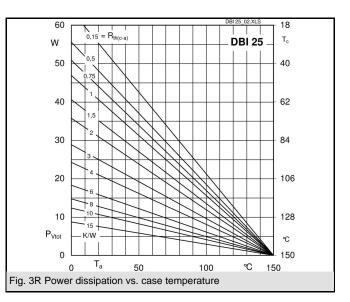
Symbol	Conditions	Values	Units
I _D	T _a = 46 °C, P1/120, natural cooling	17	А
5	$T_a = 46 \text{ °C}, \text{ chassis}^{2)}$	11	А
I _{DCL}	$T_a = 46 \text{ °C}, P1/120, natural cooling}$	17	А
	$T_a = 46 \text{ °C}, \text{ chassis}^{2)}$	11	А
	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	2,9	А
I _{FSM}	T _{vi} = 25 °C, 10 ms	370	А
	T _{vi} = 150 °C, 10 ms	310	А
i²t	T _{vi} = 25 °C, 8,3 10 ms	680	A²s
	T _{vj} = 150 °C, 8,3 10 ms	480	A²s
V _F	T _{vi} = 25°C, I _F = 12,5 A	max. 1,05	V
V _(TO)	T _{vi} = 150°C	max. 0,85	V
r _T	$T_{vi} = 150^{\circ}C$	max. 9	mΩ
I _{RD}	$T_{vj}^{3} = 25^{\circ}C, V_{RD} = V_{RRM}$	50	μΑ
	$T_{vj} = °C, V_{RD} = V_{RRM} \ge V$		μΑ
I _{RD}	$T_{vi} = 150^{\circ}C, V_{RD} = V_{RRM}$	5	mA
	$T_{vj} = °C, V_{RD} = V_{RRM} \ge V$		mA
t _{rr}	$T_{vj} = 25^{\circ}C$	10	μs
f _G		2000	Hz
R _{th(j-a)}	isolated ¹⁾	21	K/W
	chassis ²⁾	5	K/W
R _{th(j-c)}	total (from junctions to bridge back side)	2,2	K/W
R _{th(c-s)}	total	0,15	K/W
T _{vi}		- 40 + 150	°C
T _{stg}		- 55 + 150	°C
V _{isol}	a.c. 5060 Hz; r.m.s.; 1s / 1 min.	3000 / 2500	٧~
M _s	torque for heatsink mounting (M4 screw)	2 ± 15 %	Nm
M _t			Nm
a			m/s²
w	approx.	21	g
Fu			А
Case	40 x 20 x 10 mm plus leads = 20 mm	DBI	

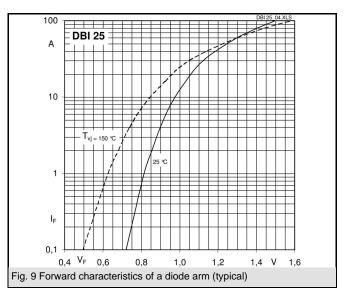


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DBI 25

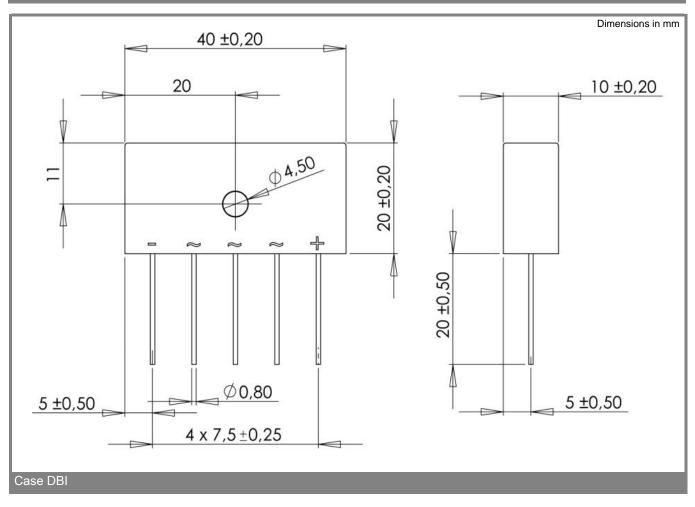






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DBI 25



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