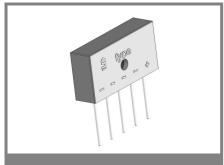
DBI 6-005 ... DBI 6-16



Inline bridge

Three-Phase Si-Bridge Rectifiers

DBI 6-005 ... DBI 6-16 Forward Current: 6 A

Reverse Voltage: 50 to 1600 V

Publish Data

Features

- Max. solder temperature: 260 °C, max. 5s
- UL recognized, file No. E63532
- V_{ISO} > 2500 V
- In-line isolated metal case with wired connectors
- Blocking voltage to 1600V
- · High surge current
- Input rectifier for variable frequency drivers
- Rectifier for DC motor field supplies
- · Battery charger
- Recommended snubber network : RC 50Ω , $0.1\mu F$

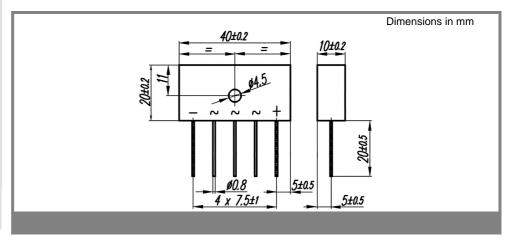
Mechanical Data

- Metal case, dimensions: 40 x 20 x 10 mm
- Weight approx. 35
- Terminals: plated terminals solderable per IEC 68-2-20
- Admissible torque for mounting (M 4): 2 (± 10 %) N
- · Standard packing : bulk
- Heat sink moutning not on the marking side

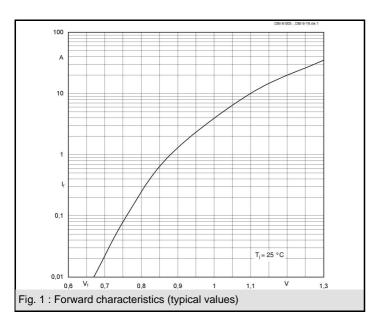
Туре	Alternating input voltage V _{RMS} V	Repetetive peak reverse voltage V _{RRM} V
DBI 6-005	35	50
DBI 6-01	70	100
DBI 6-02	140	200
DBI 6-04	280	400
DBI 6-06	420	600
DBI 6-08	560	800
DBI 6-10	700	1000
DBI 6-12	800	1200
DBI 6-14	900	1400
DBI 6-16	1000	1600

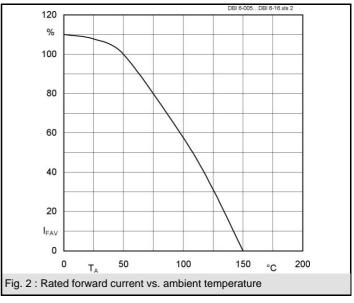
Absolute Maximum Ratings T _c = 25 °C unless otherwise specified				
Symbol	Conditions	Values	Units	
I _{FRM}	Repetitive peak forward current; f > 15 Hz ¹⁾	30	Α	
l²t	Rating for fusing, t < 10 ms	60	A²s	
I _{FSM}	Peak forward surge current, 50 Hz half sine-wave T_A = 25 °C	125	A	
I _{FAV}	Max. averaged fwd. current, R-load, T _A = 50 °C ¹⁾	2,0	А	
I _{FAV}	Max. averaged fwd. current, C-load, T _A = 50 °C ¹⁾	2,0	А	
I _{FAV}	Max. current with cooling fin, R-load, $T_C = 100 ^{\circ}\text{C}^{\ 2)}$	6	А	
I _{FAV}	Max. current with cooling fin, C-load, T _C = 100 °C ²⁾	6	А	
R _{thA}	Thermal resistance junction to ambient 1)	8	K/W	
R _{thC}	Thermal resistance junction to case 1)	4,1	K/W	
T _j	Operating junction temperature	- 50 + 150 °C	°C	
T _s	Storage temperature	- 50 + 150 °C	°C	

Characteristics T _c :		25 °C unless otherwise specified		
Symbol	Conditions	Values	Units	
V _F	Maximum forward. voltage, $T_j = 25 ^{\circ}\text{C}; I_F = 3 \text{A}$	1,1	V	
I _R	Maximum Leakage current, $T_j = 25 \text{ °C; } V_R = V_{RRM}$	50	μА	
С	Typical junction capacitance per leg at V, MHz		pF	



DBI 6-005 ... DBI 6-16





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