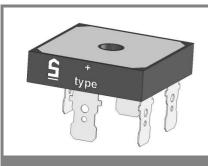
DB 35-005 ... DB 35-16



Square bridge

Three-Phase Si-Bridge Rectifiers

DB 35-005 ... DB 35-16

Forward Current: 35 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

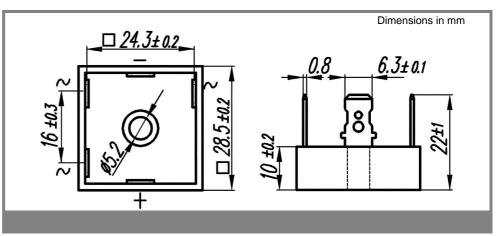
Mechanical Data

- Plastic case with alu-bottom
- Dimensions: 28,5 28,5 10 mm
- Weight approx. 23 g
- Standard packaging: bulk
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position: any
- Admissible torque for mounting (M 5): 2 (± 10%) Nm

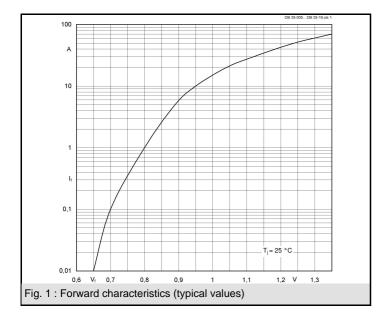
Туре	Alternating input voltage V _{RMS} V	Repetetive peak reverse voltage V _{RRM} V
DB 35-005	35	50
DB 35-01	70	100
DB 35-02	140	200
DB 35-04	280	400
DB 35-06	420	600
DB 35-08	560	800
DB 35-10	700	1000
DB 35-12	800	1200
DB 35-14	900	1400
DB 35-16	1000	1600

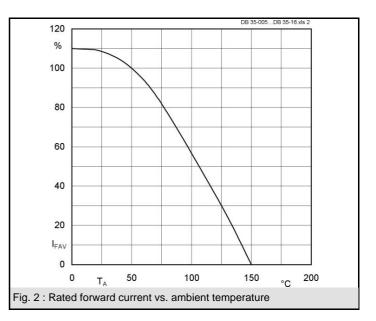
Symbol	Conditions	Values	
I _{FRM}	Repetitive peak forward current; f > 15 Hz ¹⁾	120	A
l²t	Rating for fusing, t < 10 ms	1000	A²s
I _{FSM}	Peak forward surge current, 50 Hz half sine-wave $T_A = 25 \ ^{\circ}C$	450	A
I _{FAV}	Max. averaged fwd. current, R-load, T _A = 50 °C ¹⁾	not applicable	A
I _{FAV}	Max. averaged fwd. current, C-load, $T_A = 50 \degree C^{-1)}$	not applicable	А
I _{FAV}	Max. current with cooling fin, R-load, $T_c = 100 \degree C^{(2)}$	35	A
I _{FAV}	Max. current with cooling fin, C-load, T _C = 100 °C $^{2)}$	35	A
R _{thA}	Thermal resistance junction to ambient ¹⁾		K/W
R _{thC}	Thermal resistance junction to case ¹⁾	1,8	K/W
Т	Operating junction temperature	- 50 + 150 °C	°C
T _s	Storage temperature	- 50 + 150 °C	°C

Characteristics T _c		T _c = 25	25 °C unless otherwise specified		
Symbol	Conditions		Values	Units	
V _F	Maximum forward. voltage, T _j = 25 °C; I _F = 17,5 A		1,05	V	
I _R	Maximum Leakage current, T _j = 25 °C; V _R = V _{RRM}		10	μA	
C ¹	Typical junction capacitance per leg at V, MHz			pF	



DB 35-005 ... DB 35-16





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