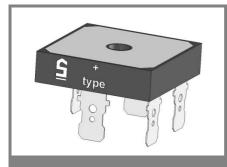
## DB 35-005 ... DB 35-16



### 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<sub>ISO</sub> > 2500 V

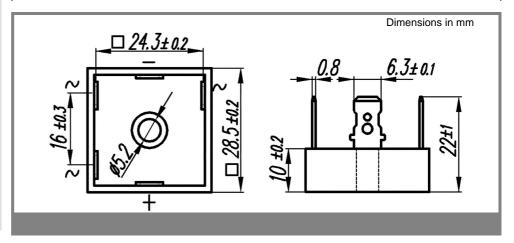
#### **Mechanical Data**

- · 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

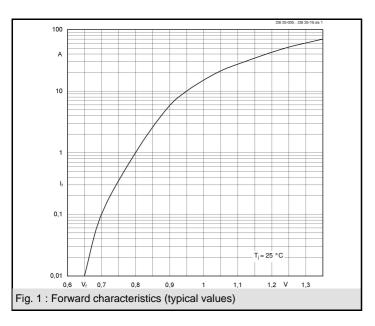
Туре	Alternating input voltage V <sub>RMS</sub> V	Repetetive peak reverse voltage V <sub>RRM</sub> V
DB 35-005	35	50
DB 35-01	70	100
DB 35-02	140	200
DB 35-04	280	400
DB 35-06	420	600
DB 35-08	560	800
DB 35-10	700	1000
DB 35-12	800	1200
DB 35-14	900	1400
DB 35-16	1000	1600

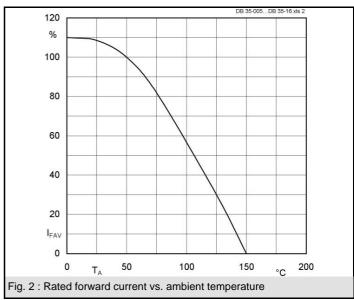
<b>Absolute Maximum Ratings</b> $T_c = 25$ °C unless otherwise specified				
Symbol	Conditions	Values	Units	
I <sub>FRM</sub>	Repetitive peak forward current; f > 15 Hz <sup>1)</sup>	120	Α	
l²t	Rating for fusing, t < 10 ms	680	A²s	
I <sub>FSM</sub>	Peak forward surge current, 50 Hz half sine-wave $T_{\rm A}$ = 25 °C	370	А	
I <sub>FAV</sub>	Max. averaged fwd. current, R-load, $T_A = 50  ^{\circ}\text{C}^{-1)}$	not applicable	А	
I <sub>FAV</sub>	Max. averaged fwd. current, C-load, T <sub>A</sub> = 50 °C 1)	not applicable	А	
I <sub>FAV</sub>	Max. current with cooling fin, R-load, T <sub>C</sub> = 100 °C <sup>2)</sup>	35	А	
I <sub>FAV</sub>	Max. current with cooling fin, C-load, T <sub>C</sub> = 100 °C <sup>2)</sup>	35	А	
R <sub>thA</sub>	Thermal resistance junction to ambient 1)		K/W	
R <sub>thC</sub>	Thermal resistance junction to case 1)	1,8	K/W	
T <sub>i</sub>	Operating junction temperature	- 50 + 150 °C	°C	
T <sub>s</sub>	Storage temperature	- 50 + 150 °C	°C	

Characteristics $T_c = 2$		5 °C unless otherwise specified	
Symbol	Conditions	Values	Units
V <sub>F</sub>	Maximum forward. voltage, $T_j = 25 ^{\circ}\text{C}; I_F = 17,5 \text{A}$	1,05	V
I <sub>R</sub>	Maximum Leakage current, $T_j = 25 \text{ °C; } V_R = V_{RRM}$	50	μΑ
CJ	Typical junction capacitance per leg at V, MHz		pF



## DB 35-005 ... DB 35-16







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