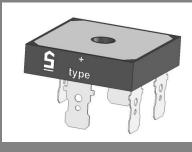
# DB 25-005 ... DB 25-16



## Square bridge

## Three-Phase Si-Bridge Rectifiers

### DB 25-005 ... DB 25-16

Forward Current: 25 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

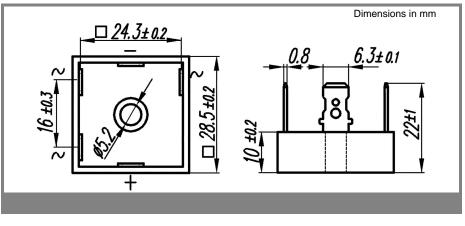
### **Mechanical Data**

- 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 25-005	35	50
DB 25-01	70	100
DB 25-02	140	200
DB 25-04	280	400
DB 25-06	420	600
DB 25-08	560	800
DB 25-10	700	1000
DB 25-12	800	1200
DB 25-14	900	1400
DB 25-16	1000	1600

Absolute Maximum Ratings T <sub>c</sub> = 25 °C unless otherwise specified					
Symbol	Conditions	Values	Units		
I <sub>FRM</sub>	Repetitive peak forward current; $f > 15 Hz^{1}$	100	А		
l²t	Rating for fusing, t < 10 ms	600	A²s		
I <sub>FSM</sub>	Peak forward surge current, 50 Hz half sine-wave $T_A = 25 \ ^\circ C$	350	A		
I <sub>FAV</sub>	Max. averaged fwd. current, R-load, T <sub>A</sub> = 50 °C <sup>1)</sup>	not applicable	A		
I <sub>FAV</sub>	Max. averaged fwd. current, C-load, T <sub>A</sub> = 50 °C <sup>1)</sup>	not applicable	A		
I <sub>FAV</sub>	Max. current with cooling fin, R-load, T <sub>C</sub> = 100 °C $^{2)}$	25	A		
I <sub>FAV</sub>	Max. current with cooling fin, C-load, T <sub>C</sub> = 100 °C <sup>2)</sup>	25	A		
R <sub>thA</sub>	Thermal resistance junction to ambient <sup>1)</sup>		K/W		
R <sub>thC</sub>	Thermal resistance junction to case <sup>1)</sup>	2,4	K/W		
T <sub>j</sub>	Operating junction temperature	- 50 + 150 °C	°C		
T <sub>s</sub>	Storage temperature	- 50 + 150 °C	°C		

Characteristics		T <sub>c</sub> = 25 °C unless otherwise specified		
Symbol	Conditions		Values	Units
V <sub>F</sub>	Maximum forward. voltage, T <sub>j</sub> = 25 °C; I <sub>F</sub> = 12,5 A		1,05	V
I <sub>R</sub>	Maximum Leakage current, T <sub>j</sub> = 25 °C; V <sub>R</sub> = V <sub>RRM</sub>		50	μA
C <sup>1</sup>	Typical junction capacitance per leg at V, MHz			pF



#### 10-04-2006 SCT

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