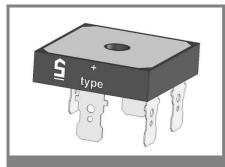
DB 25-005 ... DB 25-16



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_{ISO} > 2500 V

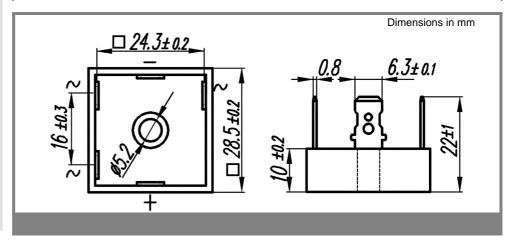
Mechanical Data

- 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

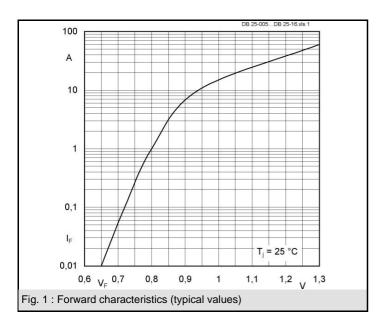
Туре	Alternating input voltage V _{RMS} V	Repetetive peak reverse voltage V _{RRM} V
DB 25-005	35	50
DB 25-01	70	100
DB 25-02	140	200
DB 25-04	280	400
DB 25-06	420	600
DB 25-08	560	800
DB 25-10	700	1000
DB 25-12	800	1200
DB 25-14	900	1400
DB 25-16	1000	1600

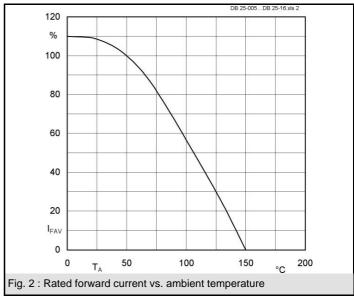
Absolute Maximum Ratings T _c = 25 °C unless otherwise specified					
Symbol	Conditions	Values	Units		
I _{FRM}	Repetitive peak forward current; f > 15 Hz ¹⁾	100	Α		
l²t	Rating for fusing, t < 10 ms	600	A²s		
I _{FSM}	Peak forward surge current, 50 Hz half sine-wave T_A = 25 °C	350	Α		
I _{FAV}	Max.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

Characteristics $T_c =$		5 °C unless otherwise specified	
Symbol	Conditions	Values	Units
V _F	Maximum forward. voltage, $T_j = 25 ^{\circ}\text{C}; I_F = 12,5 \text{A}$	1,05	V
I _R	Maximum Leakage current, $T_j = 25 \text{ °C; } V_R = V_{RRM}$	50	μА
C _J	Typical junction capacitance per leg at V, MHz		pF



DB 25-005 ... DB 25-16





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