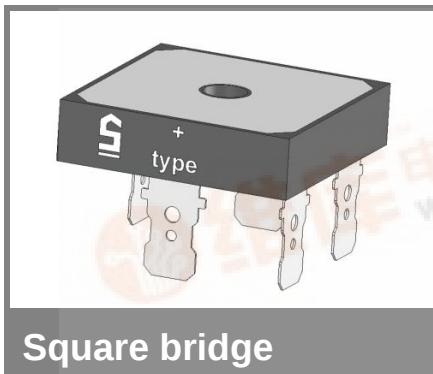


DB 15-005 ... DB 15-16



Square bridge

Three-Phase Si-Bridge Rectifiers

DB 15-005 ... DB 15-16

Forward Current: 15 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 ($\pm 10\%$) Nm

Type	Alternating input voltage V_{RMS} V	Repetitive peak reverse voltage V_{RRM} V
DB 15-005	35	50
DB 15-01	70	100
DB 15-02	140	200
DB 15-04	280	400
DB 15-06	420	600
DB 15-08	560	800
DB 15-10	700	1000
DB 15-12	800	1200
DB 15-14	900	1400
DB 15-16	1000	1600

Absolute Maximum Ratings $T_C = 25^\circ\text{C}$ unless otherwise specified			
Symbol	Conditions	Values	Units
I_{FRM}	Repetitive peak forward current; $f > 15\text{ Hz}^{(1)}$	80	A
I^2t	Rating for fusing, $t < 10\text{ ms}$	310	A ² s
I_{FSM}	Peak forward surge current, 50 Hz half sine-wave $T_A = 25^\circ\text{C}$	250	A
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 50^\circ\text{C}^{(1)}$	not applicable	A
I_{FAV}	Max. averaged fwd. current, C-load, $T_A = 50^\circ\text{C}^{(1)}$	not applicable	A
I_{FAV}	Max. current with cooling fin, R-load, $T_C = 100^\circ\text{C}^{(2)}$	15	A
I_{FAV}	Max. current with cooling fin, C-load, $T_C = 100^\circ\text{C}^{(2)}$	15	A
R_{thA}	Thermal resistance junction to ambient ¹⁾		K/W
R_{thC}	Thermal resistance junction to case ¹⁾	3,3	K/W
T_j	Operating junction temperature	- 50 ... + 150 °C	°C
T_s	Storage temperature	- 50 ... + 150 °C	°C

Characteristics $T_C = 25^\circ\text{C}$ 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, $T_j = 25^\circ\text{C}$; $V_R = V_{RRM}$	50	μA
C_j	Typical junction capacitance per leg at V, MHz		pF

