SKB 28



SEMIPONT[®] 1

Power Bridge Rectifiers

SKB 28

Features

- Sturdy isolated metal baseplate
- Fast-on terminals with solder tips
- Suitable for wave soldering
- High surge current rating
- Blocking voltage of 1600 V
- UL recognized plastic material

Typical Applications*

- DC power supply, e.g. for transistorized AC motor controllers
- Battery chargers
- Non-controlled DC motor field supply
- Recommended snubber network: RC: 50 Ω , 0.1 μ F (P_R = 1 W)
- Freely suspended or mounted on insulator
 Painted metal sheet of minimum. 250 x 250 x 1 mm: R_{th(c-a)} = 1,85 K/W

V _{RSM}	V _{RRM} , V _{DRM}	$I_D = 32 \text{ A} \text{ (Inductive Load)}$
V	V	(T _c = 85 °C)
200	200	SKB 28/02
400	400	SKB 28/04
800	800	SKB 28/08
1200	1200	SKB 28/12
1400	1400	SKB 28/14
1600	1600	

Symbol	Conditions	Values	Units
ID	$ \begin{array}{l} T_c = 85 \ ^{\circ}C \ (full \ conduction) \\ T_a = 45 \ ^{\circ}C, \ isolated^{1)} \\ T_a = 45 \ ^{\circ}C, \ chassis^{2)} \\ T_a = 45 \ ^{\circ}C, \ P1A/120 \end{array} $	30 3 12,8 27	A A A A
I _{FSM} i ² t	$\begin{array}{l} T_{vj} = 25 \ ^{o}\text{C} \ ; \ 10 \ \text{ms} \\ T_{vj} = 125 \ ^{o}\text{C} \ ; \ 10 \ \text{ms} \\ T_{vj} = 25 \ ^{o}\text{C} \ ; \ 8,3 \10 \ \text{ms} \\ T_{vj} = 125 \ ^{o}\text{C} \ ; \ 8,3 \10 \ \text{ms} \end{array}$	370 320 685 510	$ \begin{array}{c} A\\ A\\ A^2s\\ A^2s\\ A^2s \end{array} $
V _F V _(TO) r _T I _{RD} t _{rr}	$ \begin{array}{l} T_{vj} = 25 \ ^{o}\text{C}, \ I_{F} = 75 \ \text{A} \\ T_{vj} = 125 \ ^{o}\text{C} \\ T_{vj} = 125 \ ^{o}\text{C} \\ T_{vj} = 25 \ ^{o}\text{C} \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 125 \ ^{o}\text{C} \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 25 \ ^{o}\text{C} \end{array} $	max. 1,75 max. 0,85 max. 12 200 2 10	V V μA mA μs
R _{th(j-a)} R _{th(j-c)} R _{th(c-s)} T _{vj} T _{stg}	isolated ¹⁾ chassis ²⁾ per diode total	15 3 2 0,1 -40 +125 -40 +125	K∕W K∕W K∕W ¢Ç ¢
V _{isol} Ms Mt W	a. c. 50 60 Hz; r.m.s.; 1 s / 1 min. to heatsink M4 to terminal M5 approx.	3600 / 3000 2 3 66	V~ Nm Nm g
Case		G 27	



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