SKBZ 28



Controllable Bridge Rectifiers

SKBZ 28

Features

- Sturdy isolated metal baseplate
- · Fast-on terminals with solder tips
- Suitable for wave soldering
- · High surge current rating
- UL recognized, file no. E 63 532

Typical Applications*

- Controllable single phase rectifierDC power supplies
- DC motor controllers
- DC motor field controllers
- 1) Painted metal shield of minimum 250 x 250 x 1 mm: R_{th(c-a)} = 1,85 K/W
- 2) Freely suspended or mounted on insulator

V _{RSM}	V _{RRM} , V _{DRM}	I _D = 28 A (full conduction)
V	V	(T _c = 89 °C)
400	400	SKBZ 28/04
600	600	SKBZ 28/06
800	800	SKBZ 28/08
1200	1200	SKBZ 28/12
1400	1400	SKBZ 28/14

Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	30	А
	T _a = 45 °C; chassis ¹⁾	13	А
	T _a = 45 °C; P5A/100	15	А
	T _a = 45 °C; P13A/125	16	А
	T _a = 45 °C; P1A/120	23	А
I_{TSM}, I_{FSM}	T _{vj} = 25 °C; 10 ms	320	А
	T _{vj} = 125 °C; 10 ms	280	A
i²t	T _{vj} = 25 °C; 8,3 10 ms	510	A²s
	T _{vj} = 125 °C; 8,3 10 ms	390	A²s
V _T	T _{vi} = 25 °C; I _T =75 A	max. 2,25	V
V _{T(TO)}	T _{vi} = 125 °C;	max. 1	V
r _T	T _{vj} = 125 °C	max. 16	mΩ
I _{DD} ; I _{RD}	T_{vj} = 125 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM}	max. 8	mA
t _{gd}	T_{vj} = 25 °C; I_{G} = 1 A; di_{G}/dt = 1 A/µs	1	μs
t _{gr}	$V_{D} = 0.67 \cdot V_{DRM}$	1	μs
(dv/dt) _{cr}	T _{vi} = 125 °C	max. 500	V/µs
(di/dt) _{cr}	T _{vi} = 125 °C; f = 50 Hz	max. 50	A/µs
t _q	T _{vi} = 125 °C; typ.	80	μs
I _H	T _{vi} = 25 °C; typ. / max.	50 / 150	mA
I _L	$T_{vj} = 25$ °C; $R_G = 33$ Ω	100 / 300	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 2	V
I _{GT}	T _{vi} = 25 °C; d.c.	min. 100	mA
V _{GD}	T _{vi} = 125 °C; d.c.	max. 0,25	V
I _{GD}	T _{vj} = 125 °C; d.c.	max. 3	mA
R _{th(i-c)}	per thyristor / diode	1,8	K/W
	total	0,45	K/W
R _{th(c-s)}	total	0,1	K/W
R _{th(i-a)}	total ²⁾	15	K/W
T _{vj}		- 40 + 125	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M _s	case to heatsink	2	Nm
M _t		n.a.	Nm
m		66	g
Case	SKBZ	G 24	



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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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