SKBH 28



SEMIPONT[®] 1

Controllable Bridge Rectifiers

SKBH 28

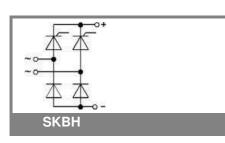
Features

- 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

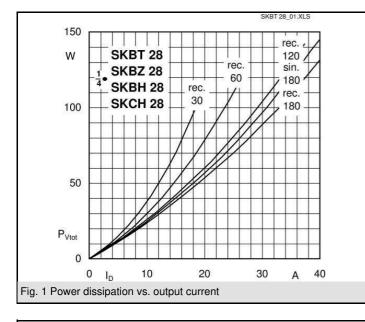
Typical Applications*

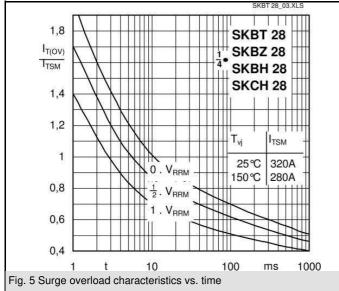
- Controllable single phase rectifierDC power supplies
- DC motor controllers
- DC motor field controllers
- 1) Painted metal shield of minimum 250 x 250 x 1 mm: R_{th(c-a)} = 1,85 K/W
- 2) Freely suspended or mounted on insulator

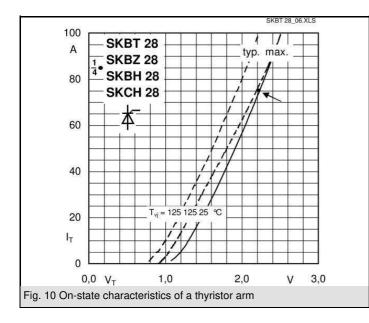
V _{RSM}		V _{RRM} , V _{DRM}		I _D = 28 A (full conduction)	
V		V		(T _c = 89 °C)	
600		600		SKBH 28/06	
800		800		SKBH 28/08	
1200		1200		SKBH 28/12	
1400		1400		SKBH 28/14	
Symbol	Con	ditions		Values	Units
I _D	$T_c = 8$	85 °C		30	А
	$T_a = 4$	l5 °C; chassis ¹⁾		13	А
	$T_a = 4$	l5 °C; P5A/100		15	А
	T _a = 4	l5 °C; P13A/125		16	А
	T _a = 4	l5 °C; P1A/120		23	А
I _{TSM} , I _{FSM}		25 °C; 10 ms		320	A
	$T_{v_i} =$	125 °C; 10 ms		280	А
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}	I_{RD} $T_{vj} = 125 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$		max. 8	mA	
t _{gd}			1	μs	
t _{gr}		0,67 · V _{DRM}		1	μs
(dv/dt) _{cr}	· · J	125 °C		max. 500	V/µs
(di/dt) _{cr}	T _{vj} =	125 °C; f = 50 Hz		max. 50	A/µs
t _q		125 °C; typ.		80	μs
I _H	.,	25 °C; typ. / max.		50 / 150	mA
I _L	,	25 °C; R _G = 33 Ω		100 / 300	mA
V _{GT}	T _{vi} =	25 °C; d.c.		min. 2	V
I _{GT}	$T_{vj} =$	25 °C; d.c.		min. 100	mA
V_{GD}	$T_{vj} =$	125 °C; d.c.		max. 0,25	V
I_{GD}	T _{vj} = 125 °C; d.c.		max. 3	mA	
R _{th(j-c)}	per th	nyristor / 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	2)		15	K/W
Т _{vj}				- 40 + 125	°C
T _{stg}				- 40 + 125	°C
V _{isol}	a. c.	50 Hz; r.m.s.; 1 s / 1 r	nin.	3600 (3000)	V
M _s	case	to heatsink		2	Nm
M _t				n.a.	Nm
m				66	g
Case	SKB	4		G 23	

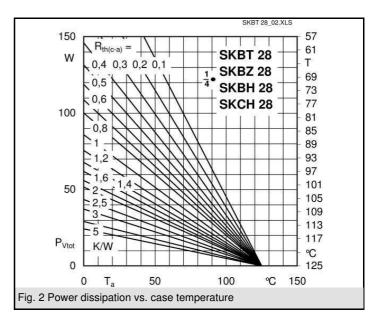


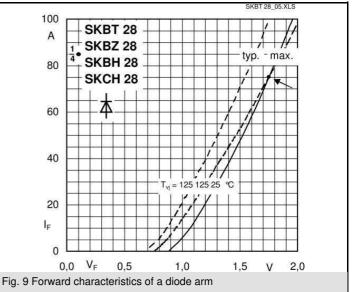
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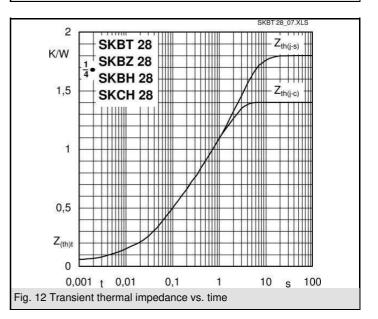




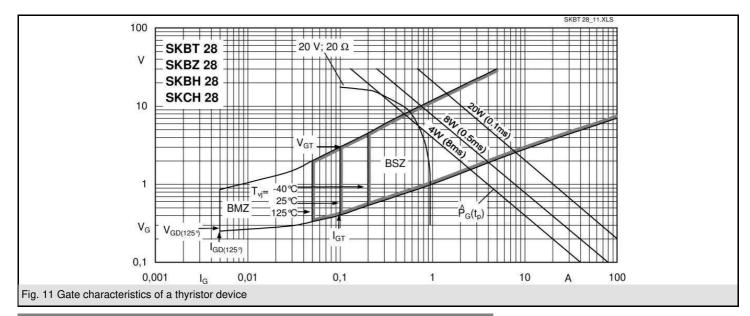


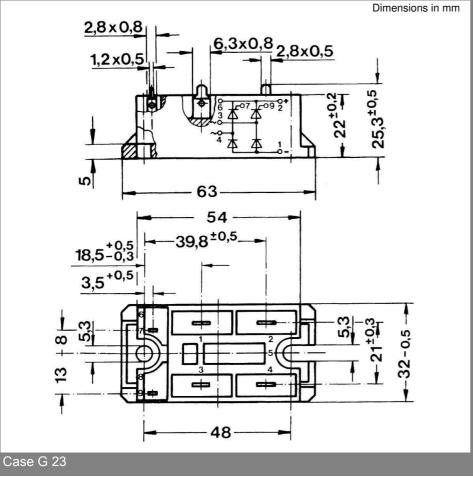






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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances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