

Controllable Bridge Rectifiers

SKCH 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

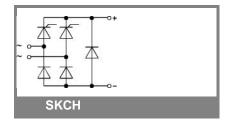
- Controllable single phase rectifierDC power supplies
- DC motor controllers
- . DC motor field controllers

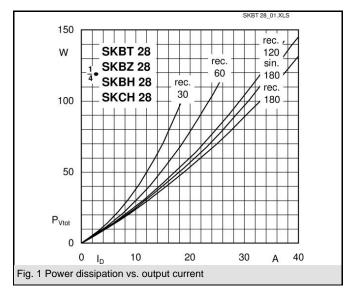
1)	Painted metal shield of minimum 250 x
	250 x 1 mm: R _{th(c-a)} = 1,85 K/W

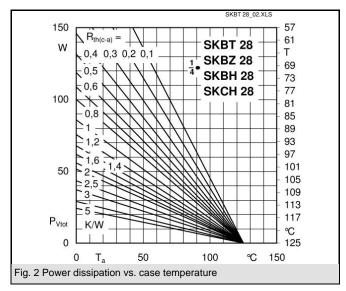
2) Freely suspended or mounted on insulator

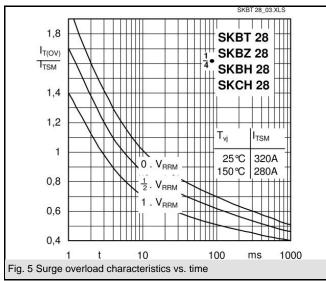
V _{RSM}	V_{RRM}, V_{DRM}	I _D = 28 A (full conduction)
V	V	(T _c = 89 °C)
400	400	SKCH 28/04
600	600	SKCH 28/06
800	800	SKCH 28/08
1200	1200	SKCH 28/12
1400	1400	SKCH 28/14

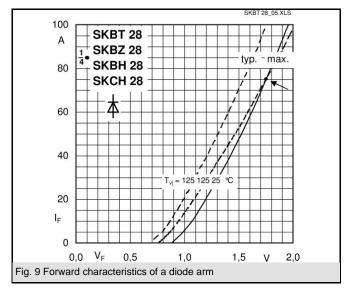
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Symbol	Conditions	Values	Units
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	I _D		30	Α
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			13	Α
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			15	Α
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		<u>u</u>	16	Α
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		<u>u</u>	23	Α
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I_{TSM}, I_{FSM}			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	l			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	i²t	•,		_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		•,		_
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		*) ·	max. 2,25	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$V_{T(TO)}$		max. 1	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	r_T	1 3	max. 16	mΩ
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$I_{DD}; I_{RD}$	T_{vj} = 125 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM}	max. 8	mA
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	t_{gd}	1 ",	1	μs
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1	μs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(dv/dt) _{cr}	T _{vj} = 125 °C	max. 500	V/µs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(di/dt) _{cr}		max. 50	A/µs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	t _q		80	μs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I _H	T _{vj} = 25 °C; typ. / max.	50 / 150	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_ · ·	100 / 300	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V_{GT}		min. 2	V
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	I _{GT}		min. 100	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V_{GD}	T_{vj} = 125 °C; d.c.	max. 0,25	V
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I_{GD}	T _{vj} = 125 °C; d.c.	max. 3	mA
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R _{th(j-c)}	per thyristor / diode	1,8	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		total	0,45	K/W
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	R _{th(c-s)}		0,1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$R_{th(j-a)}$	total ²⁾		
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	T_{vj}		- 40 + 125	_
Ms case to heatsink 2 Nm Mt n.a. Nm m 66 g			- 40 + 125	°C
Ms case to heatsink 2 Nm Mt n.a. Nm m 66 g	V_{isol}		` '	
m 66 g	M_s	case to heatsink	2	
	M_t		n.a.	Nm
Case SKCH G 25	m		66	g
	Case	SKCH	G 25	

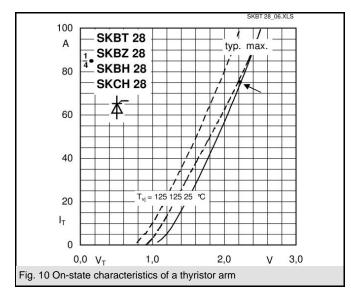


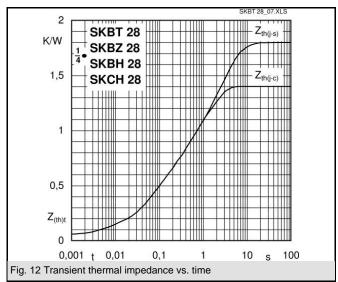


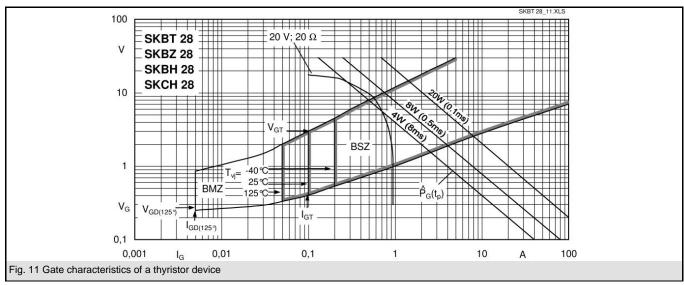


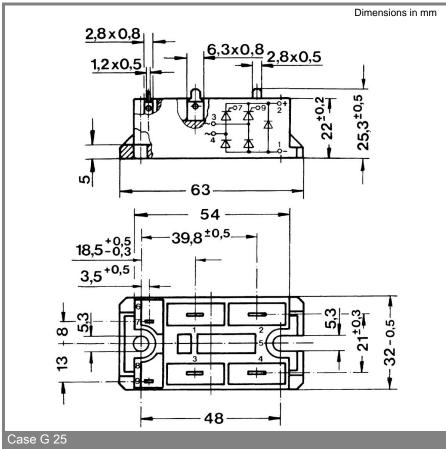












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