



Avalanche bridge

Power Bridge Rectifiers

SKBa 25

Features

- Square plastic case with isolated metal base plate and fast-on connectors
- Avalanche characteristics
- Minimum breakdown voltage of 1300 and 1700 V
- High surge current
- Easy chassis mounting
- UL-94V0 plastic material

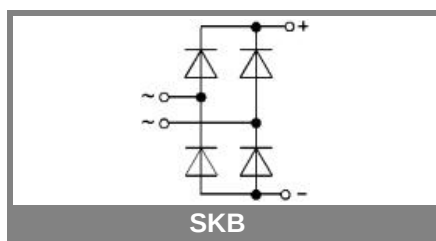
Typical Applications

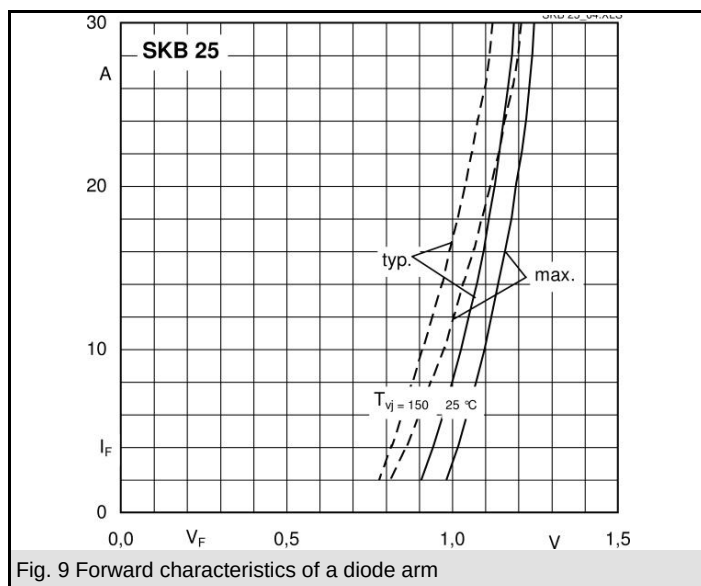
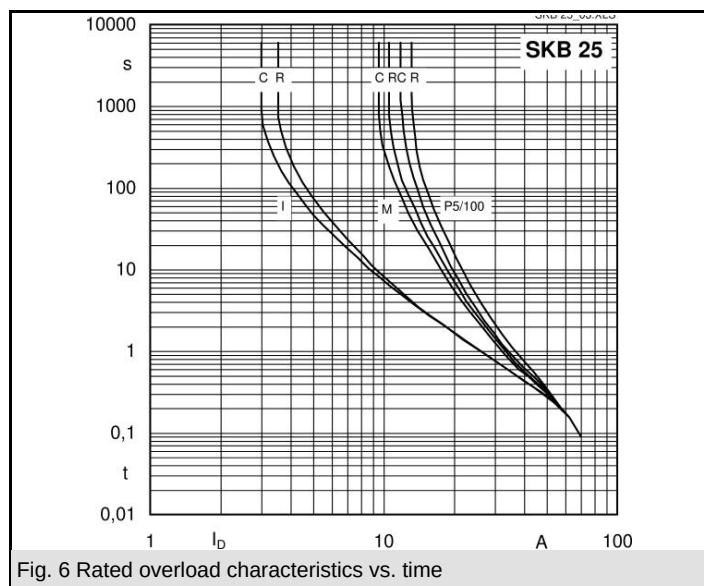
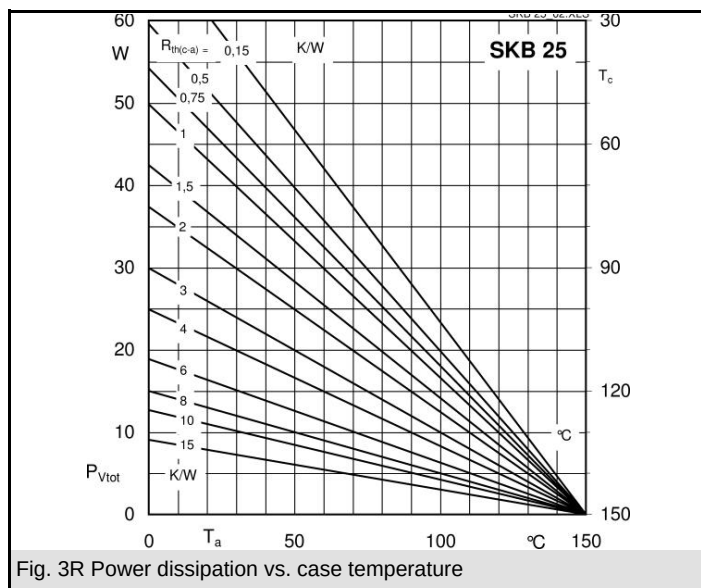
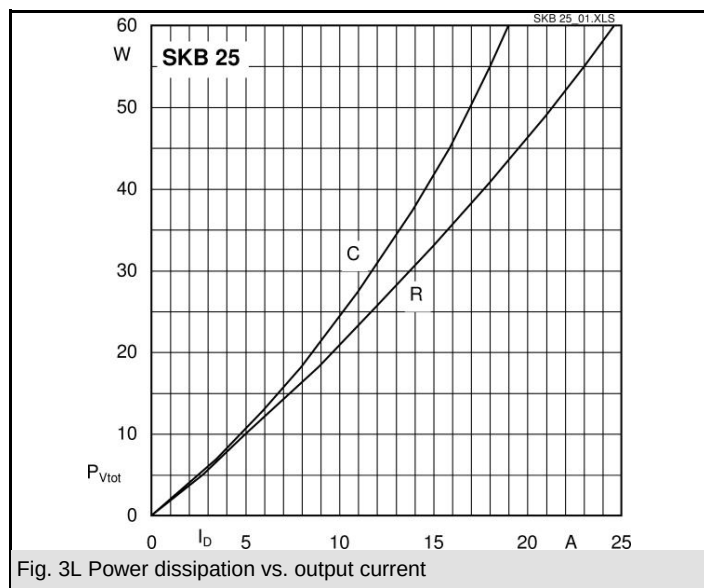
- Inductive Loads
- Solenoid power supply
- Motor brakes
- Rectifier for power supplies
- DC motor field supplies

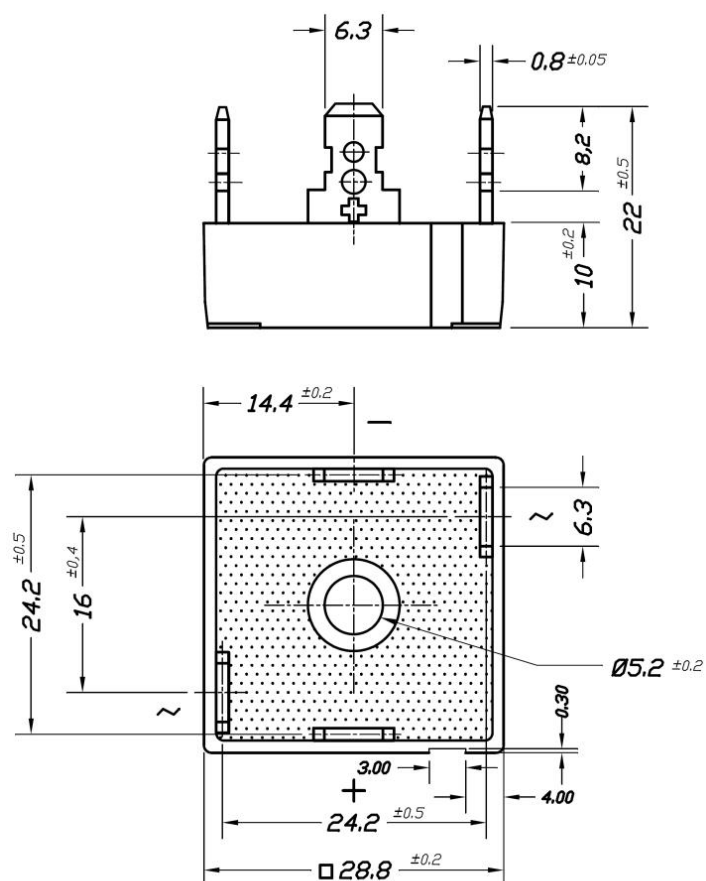
- 1) Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

V_{RSM}, V_{RRM} V	V_{VRMS} V	$I_D = 17 \text{ A } (T_c = 75^\circ \text{C})$ Types	C_{max} μF	R_{min} Ω
	500 660	SKBa 25/13 ($V_{(BR)min} = 1300 \text{ V}$) SKBa 25/17 ($V_{(BR)min} = 1700 \text{ V}$) $P_{RSM} = 6 \text{ kW @ } T_{vj} = 150^\circ \text{C},$ $t_p = 10 \mu\text{s}$		1 1,5

Symbol	Conditions	Values	Units
I_D	$T_a = 45^\circ \text{C}$, isolated ¹⁾	3,5	A
	$T_a = 45^\circ \text{C}$, chassis ²⁾	10	A
I_{DCL}	$T_a = 45^\circ \text{C}$, isolated ¹⁾	3	A
	$T_a = 45^\circ \text{C}$, chassis ²⁾	9,5	A
	$T_a = ^\circ \text{C}$,		A
I_{FSM}	$T_{vj} = 25^\circ \text{C}$, 10 ms	370	A
	$T_{vj} = 150^\circ \text{C}$, 10 ms	320	A
i^2t	$T_{vj} = 25^\circ \text{C}$, 8,3 ... 10 ms	680	A ² s
	$T_{vj} = 150^\circ \text{C}$, 8,3 ... 10 ms	500	A ² s
V_F	$T_{vj} = 25^\circ \text{C}$, $I_F = 150 \text{ A}$	max. 2,2	V
$V_{(TO)}$	$T_{vj} = 150^\circ \text{C}$	max. 0,85	V
r_T	$T_{vj} = 150^\circ \text{C}$	max. 12	m Ω
I_{RD}	$T_{vj} = 25^\circ \text{C}$, $V_{RD} = V_{RRM}$	20	μA
	$T_{vj} = ^\circ \text{C}$, $V_{RD} = V_{RRM} \geq V$		μA
I_{RD}	$T_{vj} = 150^\circ \text{C}$, $V_{RD} = V_{RRM}$	4	mA
	$T_{vj} = ^\circ \text{C}$, $V_{RD} = V_{RRM} \geq V$		mA
t_{rr}	$T_{vj} = 25^\circ \text{C}$	10	μs
f_G		2000	Hz
$R_{th(j-a)}$	isolated ¹⁾	15	K/W
	chassis ²⁾	4,7	K/W
$R_{th(j-c)}$	total	2	K/W
$R_{th(c-s)}$	total	0,15	K/W
T_{vj}		- 40 ... + 150	$^\circ \text{C}$
T_{stg}		- 55 ... + 150	$^\circ \text{C}$
V_{isol}	a.c. 50 ... 60 Hz; r.m.s.; 1 s / 1 min. to heatsink	3000 / 2500	V~
M_s		$2 \pm 15 \%$	Nm
M_t			Nm
a			m/s ²
w		24	g
F_u		20	A
Case		G 10b	







Case G 10b

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