

SEMITOP® 2

Bridge Rectifier

SK 50 B

Preliminary Data

Features

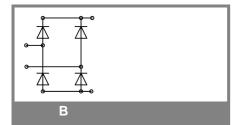
- · Compact design
- · One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB)
- Up 1600V reverse voltage
- High surge current
- · Glass passived diode chips
- UL recognized, file no. E 63 532

Typical Applications

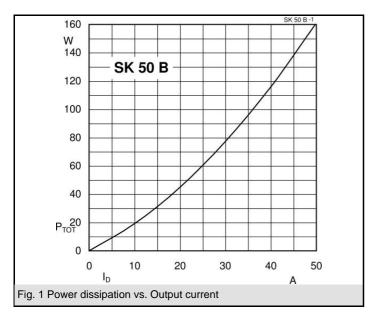
- Input rectifier for power supplies
- Rectifier

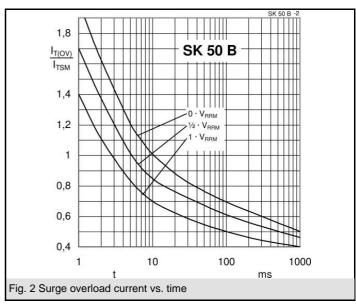
V _{RSM}	V_{RRM}, V_{DRM}	I _D = ⁵¹ A (full conduction)
V	V	(T _s = 80 °C)
800	800	SK 50 B 08
1200	1200	SK 50 B 12
1600	1600	SK 50 B 16

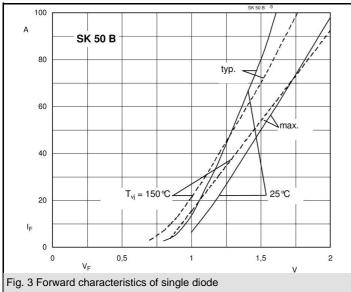
Symbol	Conditions	Values	Units
I_D	T _S = 80 °C	51	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	370	Α
	T _{vi} = 125 °C; 10 ms	270	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,310 \text{ms}$	685	A²s
	T _{vj} = 125 °C; 8,310 ms	365	A²s
V_{F}	T _{vi} = 25 °C; I _F = 25 A	max. 1,25	V
$V_{(TO)}$	T _{vi} = 125 °C	max. 0,8	V
r _T	T _{vi} = 125 °C	max. 13	mΩ
I_{RD}	$T_{v_i} = 150 ^{\circ}\text{C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 4	mA
			mA
R _{th(j-s)}	per diode	1,7	K/W
	per module	0,43	K/W
Т	terminals, 10s	260	°C
T _{solder} T _{vj}	terrimas, 103	-40+150	°C
		-40+125	°C
T _{stg}			
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 (2500)	V
M _s	mounting torque to heatsink	2	Nm
M _t			
m	approx. weight	19	g
Case	SEMITOP® 2	Т 6	

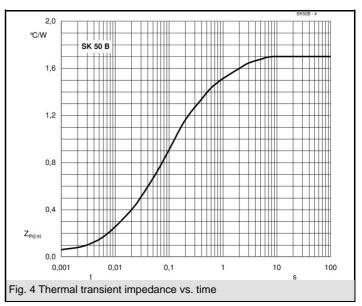


SK 50 B

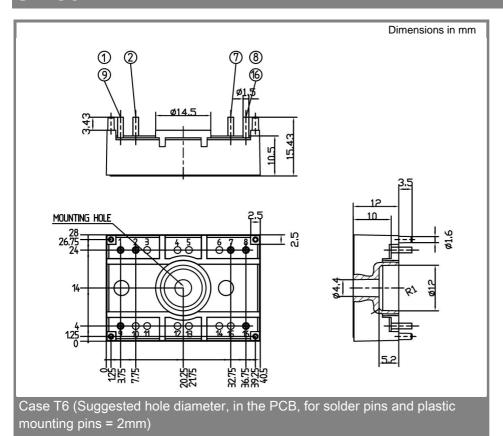


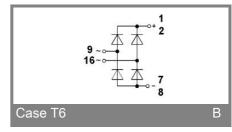






SK 50 B





This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.