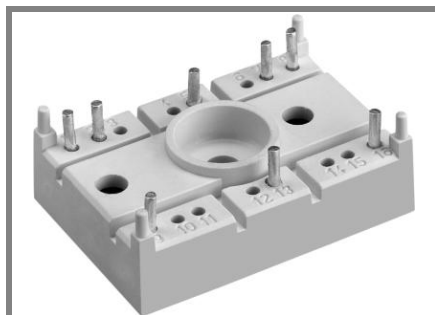


SK 50 B 06 UF



SEMITOP® 2

Bridge Rectifier

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Target Data

Features

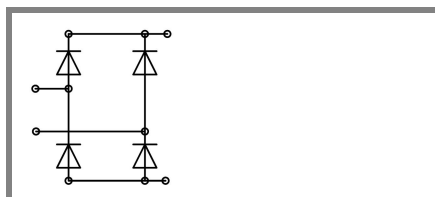
- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB)
- Ultra Fast diodes
- UL recognized, file no. E 63 532

Typical Applications

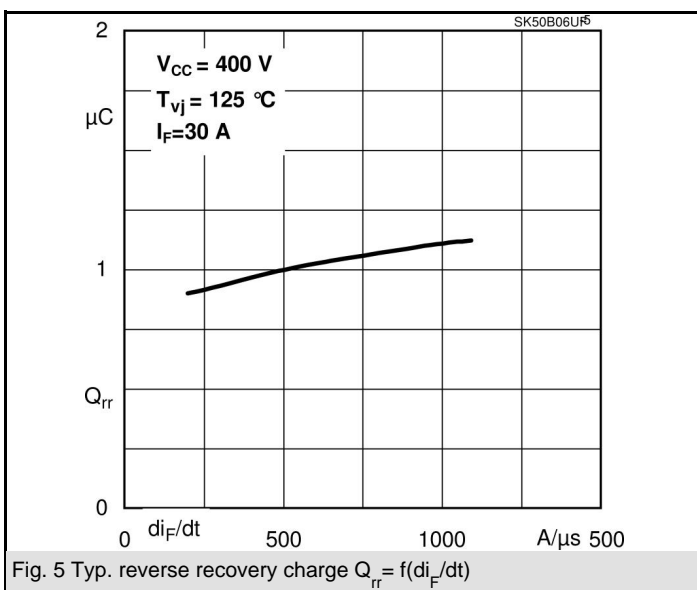
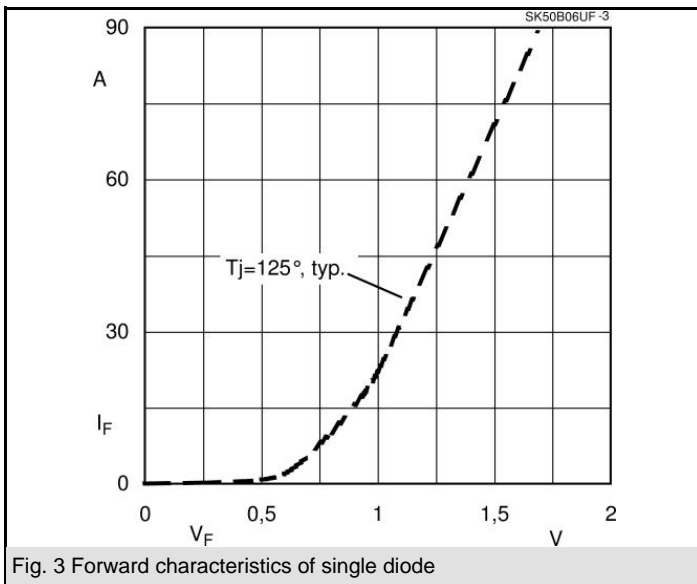
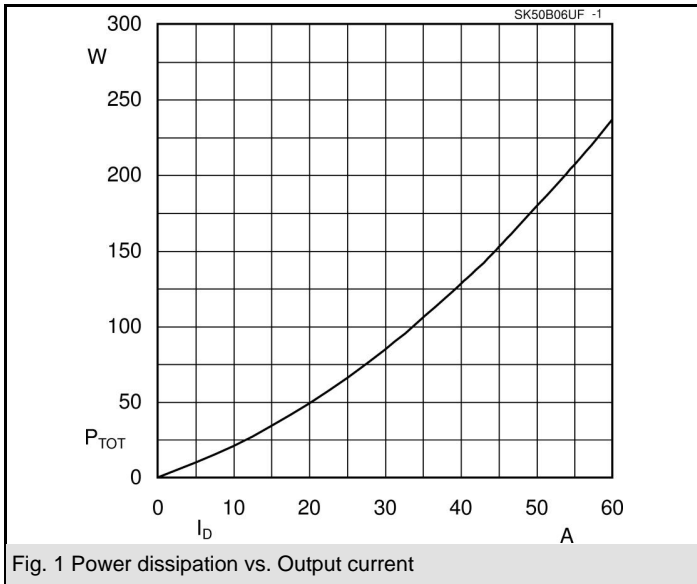
- General power switching applications
- UPS
- SMPS
- Welding equipment

V_{RSM}	V_{RRM}, V_{DRM}	$I_D = 46 \text{ A (full conduction)}$
V	V	($T_s = 80 \text{ }^\circ\text{C}$)
600	600	SK 50 B 06 UF

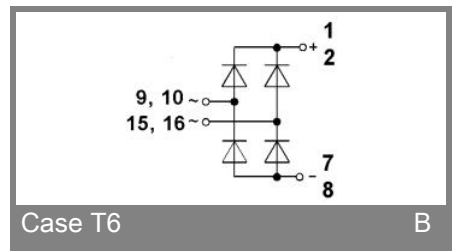
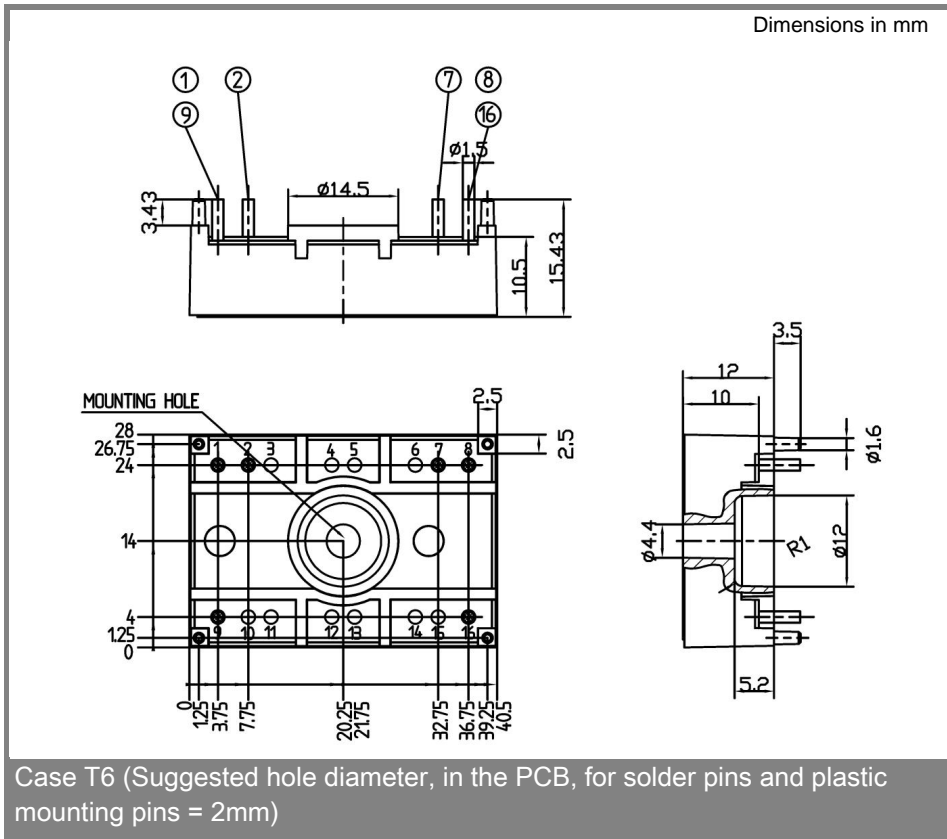
Symbol	Conditions	Values	Units
I_D	$T_s = 80 \text{ }^\circ\text{C}$	46	A
I_{RRM}	$T_{vj} = 125 \text{ }^\circ\text{C}; V_R = 400 \text{ V}; I_F = 30 \text{ A};$	11	A
Q_{rr}	$- di_F / dt = 300 \text{ A}/\mu\text{s}$	typ. 0,93	μC
I_R	$T_{vj} = 25 (150) \text{ }^\circ\text{C}; V_R = V_{RRM}$	max 0,015 (0,475)	mA
I_{FSM}	$T_{vj} = 150 \text{ }^\circ\text{C}; 10 \text{ ms}$	400	A
i^2t	$T_{vj} = \text{ }^\circ\text{C}; \text{ms}$	800	A ² s
	$T_{vj} = 150 \text{ }^\circ\text{C}; 10 \text{ ms}$		A ² s
	$T_{vj} = \text{ }^\circ\text{C}; \text{ms}$		A ² s
V_F	$T_{vj} = 125 \text{ }^\circ\text{C}; I_F = 50 \text{ A}$	max. 1,95	V
$V_{(TO)}$	$T_{vj} = 125 \text{ }^\circ\text{C}$	max. 0,8	V
r_T	$T_{vj} = 125 \text{ }^\circ\text{C}$	max. 11	m Ω
I_{RD}	$T_{vj} = \text{ }^\circ\text{C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$		mA
			mA
$R_{th(j-s)}$	per diode	1,8	K/W
	per module	0,45	K/W
T_{solder}	terminals, 10s	260	$^\circ\text{C}$
T_{vj}		-40...+150	$^\circ\text{C}$
T_{stg}		-40...+125	$^\circ\text{C}$
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	T 6	



B



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