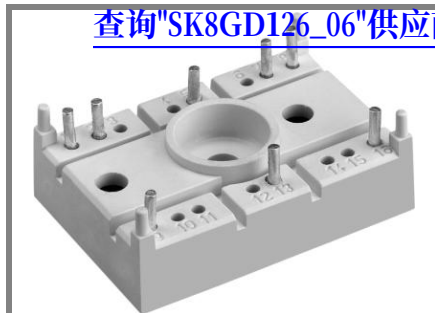


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SEMITOP® 2

IGBT Module

SK 8 GD 126

Preliminary Data

Features

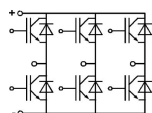
- Fast Trench IGBTs
- Soft freewheeling diodes in CAL High Density technology
- Compact design
- One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DCB)

Typical Applications

- Switching (not for linear use)
- Inverter
- Switched mode power supplies
- UPS

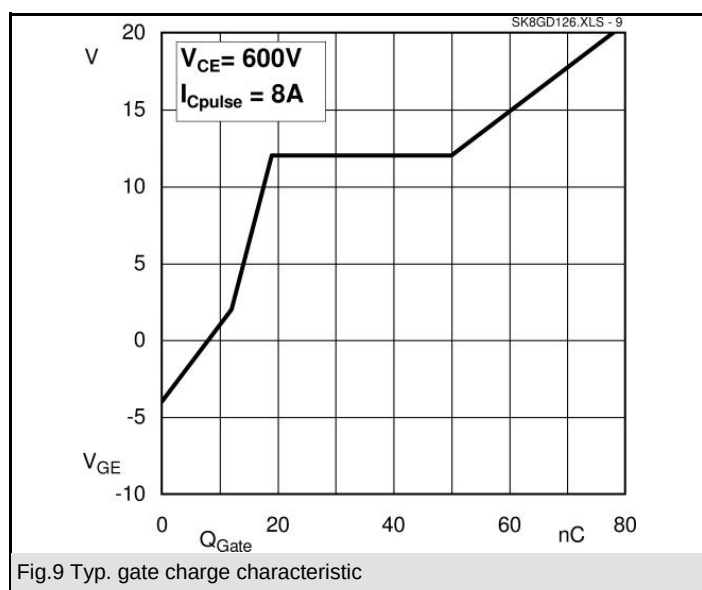
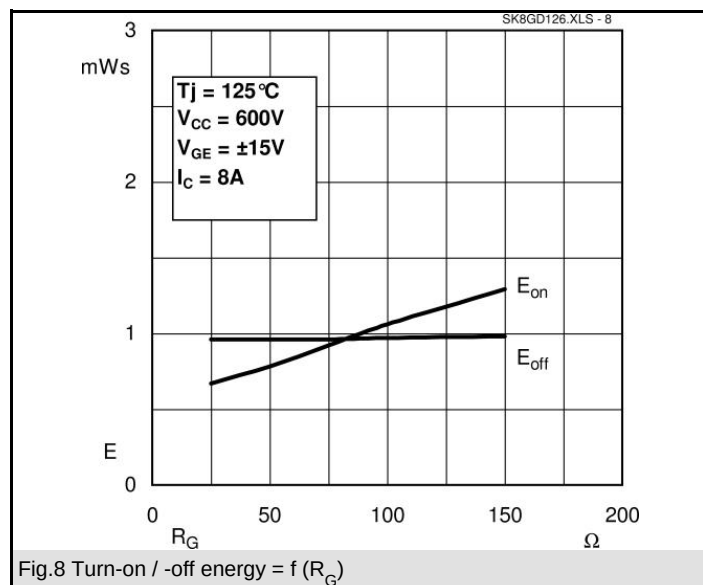
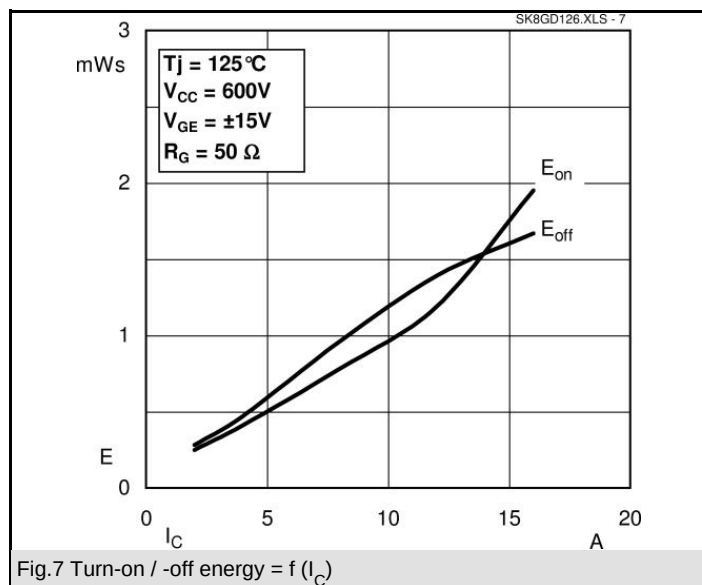
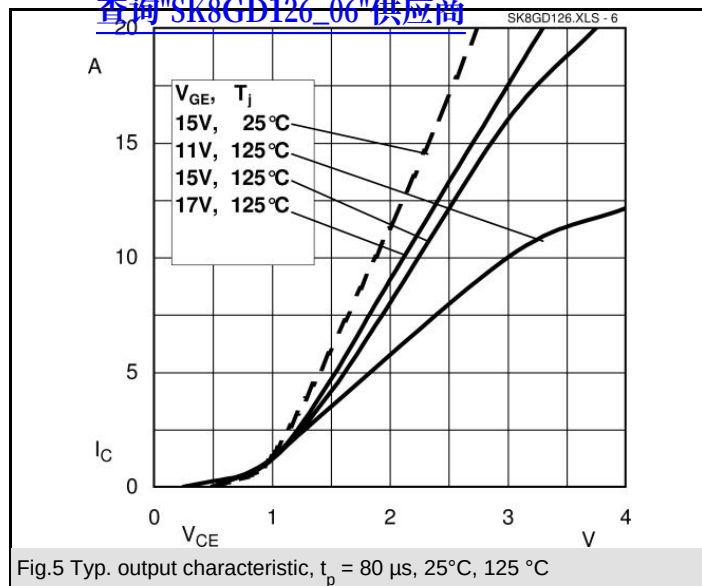
Absolute Maximum Ratings		$T_s = 25\text{ °C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
IGBT			
V_{CES}		1200	V
V_{GES}		± 20	V
I_C	$T_s = 25\text{ (80) °C}$;	15 (10)	A
I_{CM}	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) °C}$;	30 (20)	A
T_j		- 40 ... + 150	°C
Inverse/Freewheeling CAL diode			
I_F	$T_s = 25\text{ (80) °C}$;	13 (9)	A
$I_{FM} = -I_{CM}$	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) °C}$;	26 (18)	A
T_j		- 40 ... + 150	°C
T_{stg}		- 40 ... + 125	°C
T_{sol}	Terminals, 10 s	260	°C
V_{isol}	AC 50 Hz, r.m.s. 1 min. / 1 s	2500 / 3000	V

Characteristics		$T_s = 25\text{ °C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT					
$V_{CE(sat)}$	$I_C = 8\text{ A}$, $T_j = 25\text{ (125) °C}$		1,7 (2)	2,1	V
$V_{GE(th)}$	$V_{CE} = V_{GE}$; $I_C = 0,0003\text{ A}$	5	5,8	6,5	V
C_{res}	$V_{CE} = 25\text{ V}$; $V_{GE} = 0\text{ V}$; 1 MHz		0,7		nF
$R_{th(j-s)}$	per IGBT			2	K/W
	per module				K/W
$t_{d(on)}$	under following conditions: $V_{CC} = 600\text{ V}$, $V_{GE} = \pm 15\text{ V}$		85		ns
t_r	$I_C = 8\text{ A}$, $T_j = 125\text{ °C}$		30		ns
$t_{d(off)}$	$R_{Gon} = R_{Goff} = 50\text{ }\Omega$		430		ns
t_f			90		ns
$E_{on} + E_{off}$	Inductive load		1,9		mJ
Inverse/Freewheeling CAL diode					
$V_F = V_{EC}$	$I_F = 8\text{ A}$; $T_j = 25\text{ (125) °C}$		1,9 (2)	2 (2,4)	V
$V_{(TO)}$	$T_j = (125)\text{ °C}$		1 (0,8)	1,1	V
r_T	$T_j = (125)\text{ °C}$		112 (150)	138	m Ω
$R_{th(j-s)}$				2,8	K/W
I_{RRM}	under following conditions: $I_F = 8\text{ A}$; $V_R = 600\text{ V}$		9,4		A
Q_{rr}	$di_F/dt = 300\text{ A}/\mu\text{s}$		1,5		μC
E_{off}	$V_{GE} = 0\text{ V}$; $T_j = 125\text{ °C}$		0,6		mJ
Mechanical data					
M1	mounting torque			2	Nm
w			21		g
Case	SEMITOP® 2		T 47		

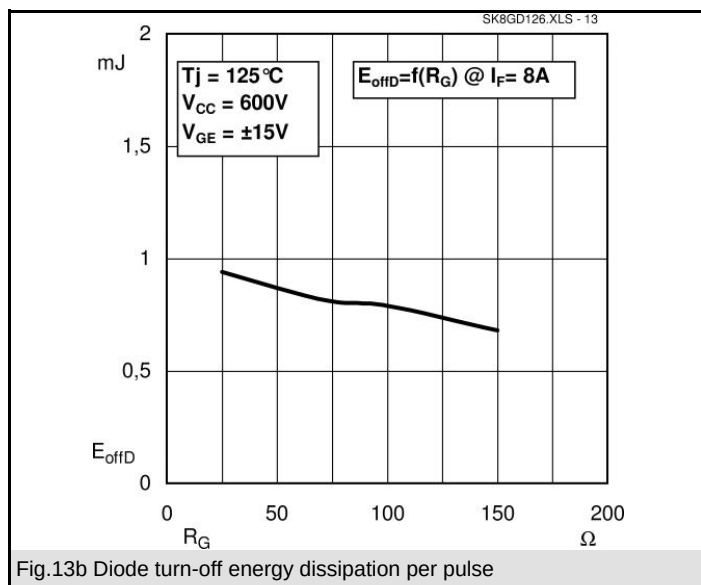
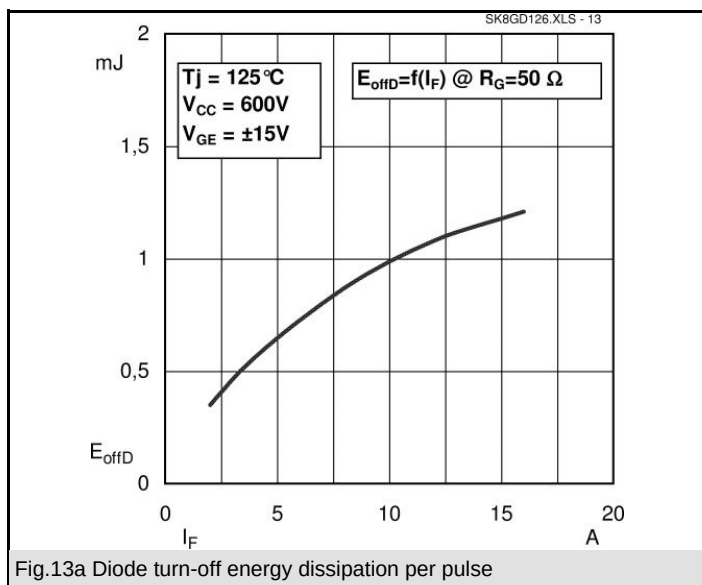
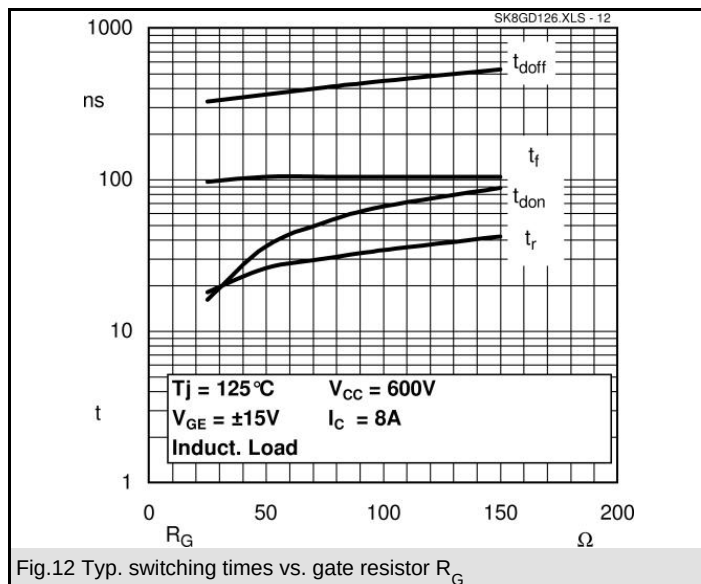
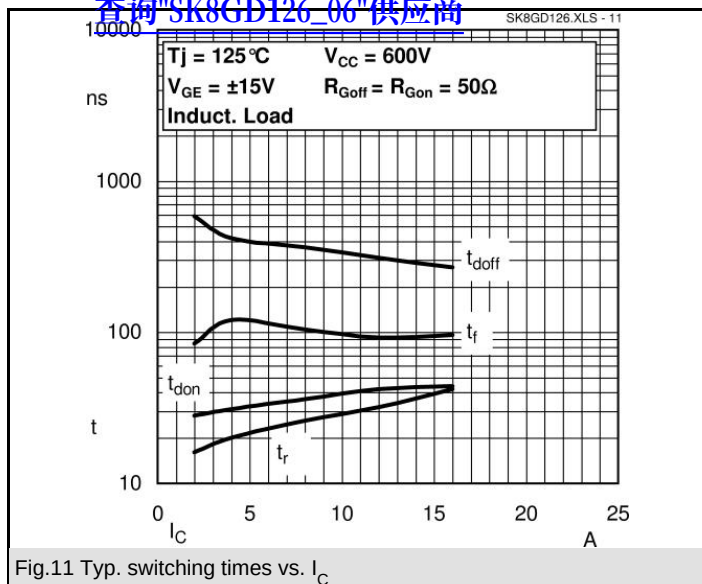


GD

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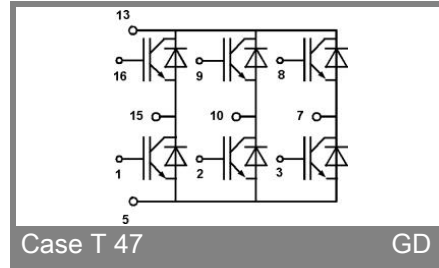
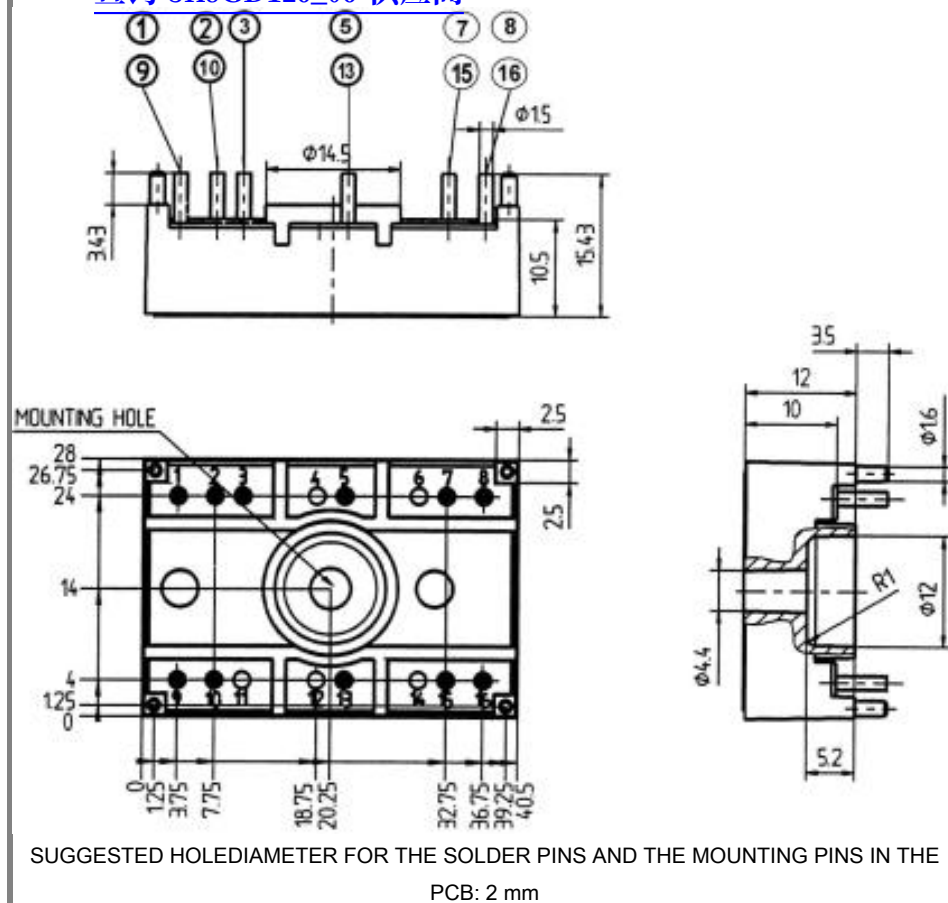


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Dimensions in mm



This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

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