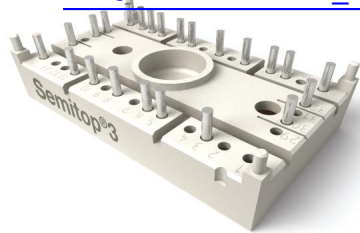


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SEMITOP® 3

IGBT Module

SK10GD065ET

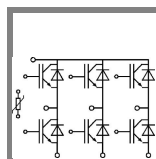
Preliminary Data

Features

- Compact design
- One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DCB)
- Ultrafast NPT technology IGBT
- CAL technology FWD
- Integrated NTC temperature sensor

Typical Applications

- Inverter



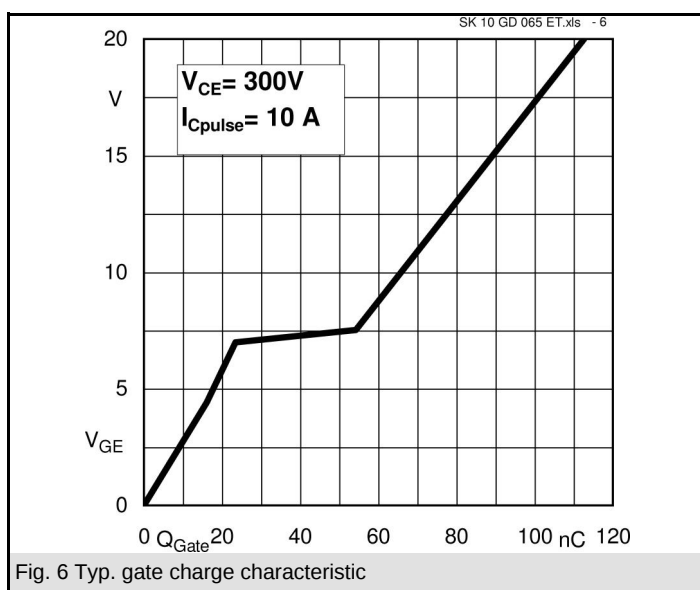
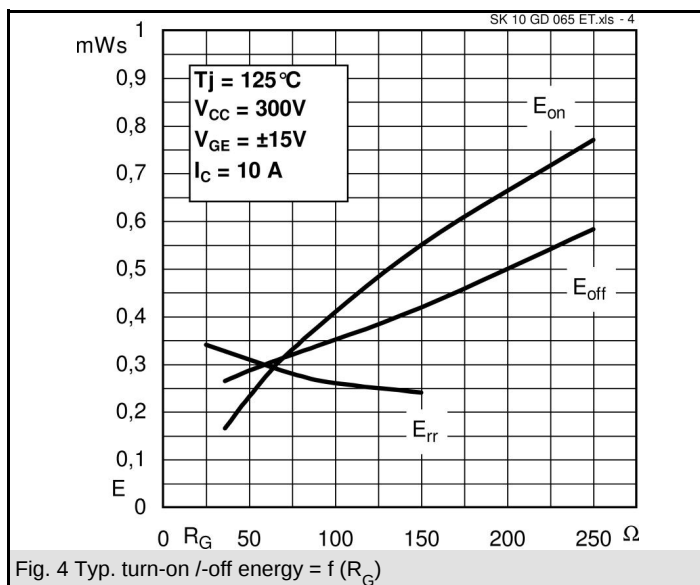
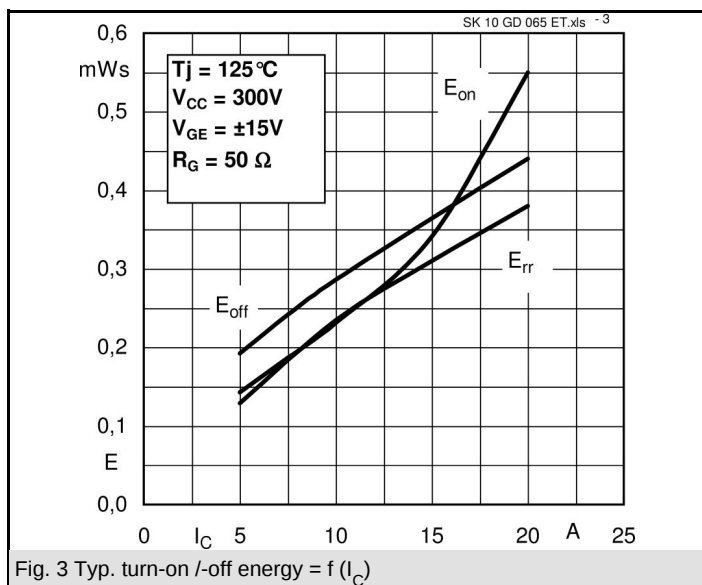
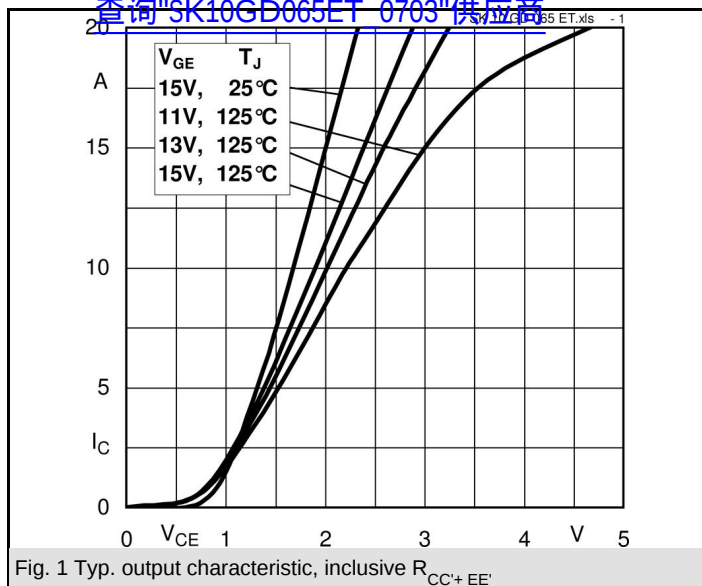
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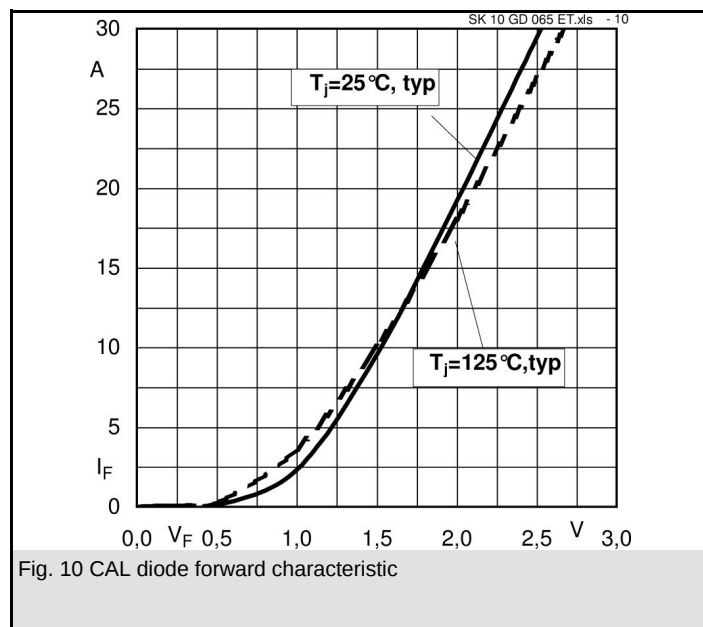
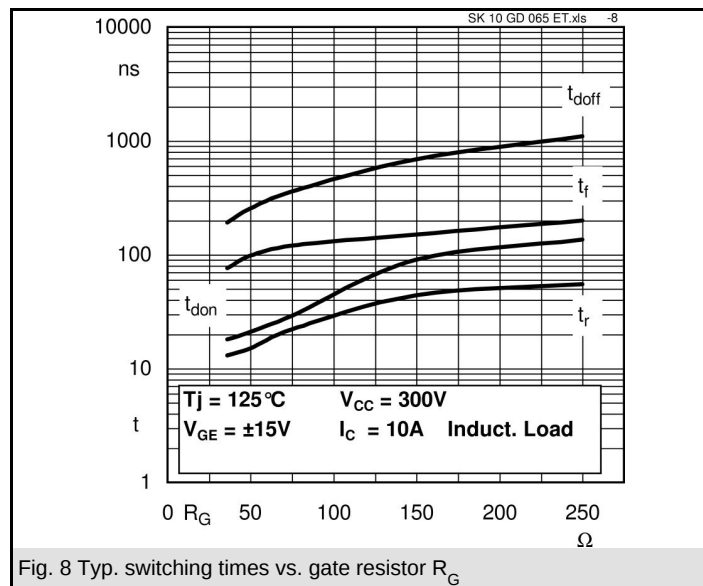
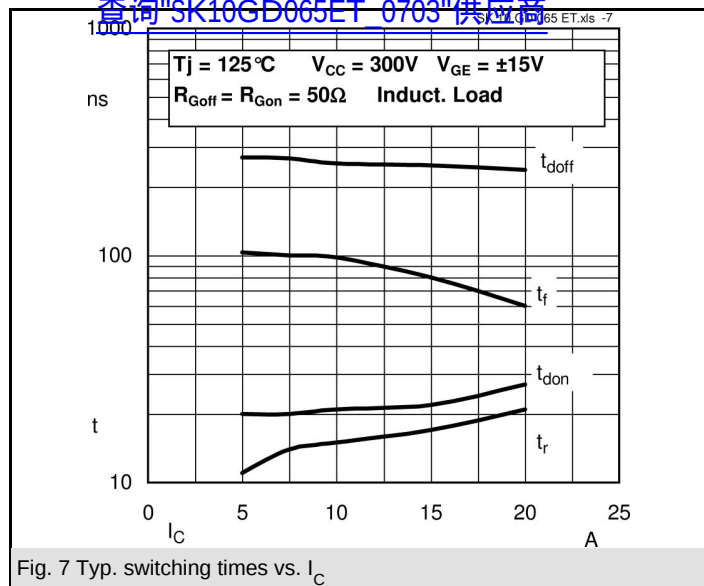
Absolute Maximum Ratings		$T_s = 25\text{ }^{\circ}\text{C}$, unless otherwise specified		
Symbol	Conditions	Values	Units	
IGBT				
V_{CES}	$T_j = 25\text{ }^{\circ}\text{C}$	600	V	
I_C	$T_j = 125\text{ }^{\circ}\text{C}$	$T_s = 25\text{ }^{\circ}\text{C}$	17	A
		$T_s = 80\text{ }^{\circ}\text{C}$	11	A
I_{CRM}	$I_{CRM} = 2 \times I_{Cnom}$	20	A	
V_{GES}		± 20	V	
t_{psc}	$V_{CC} = 300\text{ V}; V_{GE} \leq 20\text{ V}; T_j = 125\text{ }^{\circ}\text{C}$ $V_{CES} < 600\text{ V}$	10	μs	
Inverse Diode				
I_F	$T_j = 150\text{ }^{\circ}\text{C}$	$T_s = 25\text{ }^{\circ}\text{C}$	22	A
		$T_s = 80\text{ }^{\circ}\text{C}$	15	A
I_{FRM}	$I_{FRM} = 2 \times I_{Fnom}$	30	A	
Module				
$I_{t(RMS)}$			A	
T_{vj}		-40 ... +150	$^{\circ}\text{C}$	
T_{stg}		-40 ... +125	$^{\circ}\text{C}$	
V_{isol}	AC, 1 min.	2500	V	

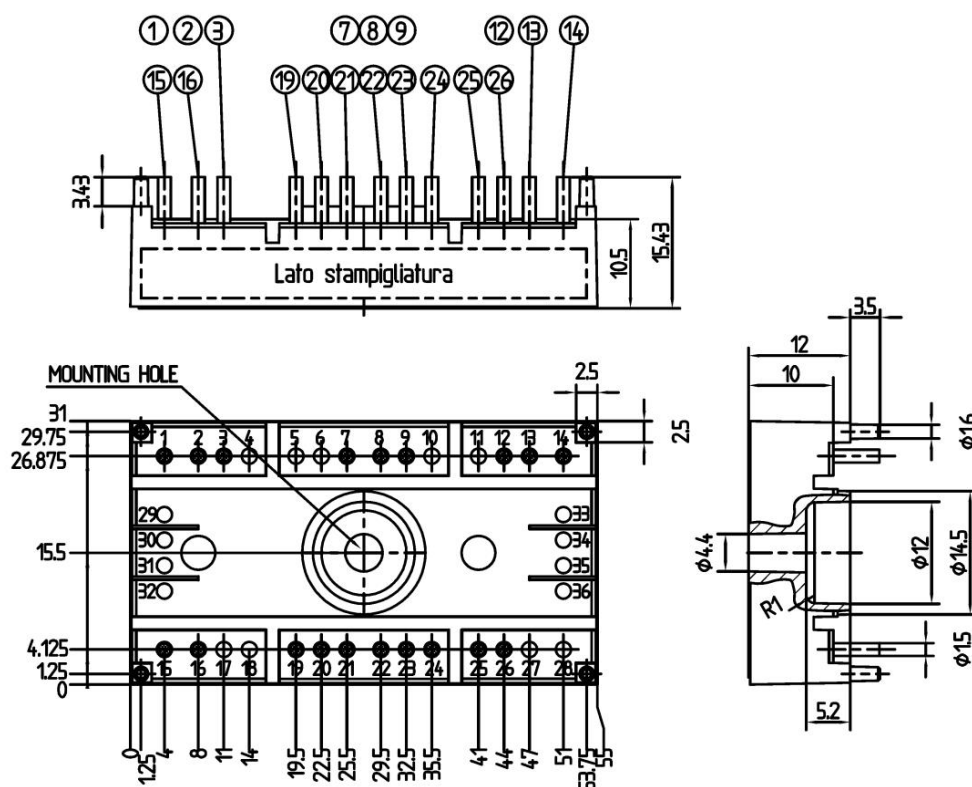
Characteristics		$T_s = 25\text{ °C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT					
$V_{GE(th)}$	$V_{GE} = V_{CE}$, $I_C = 0,3\text{ mA}$	3	4	5	V
I_{CES}	$V_{GE} = 0\text{ V}$, $V_{CE} = V_{CES}$	$T_j = 25\text{ °C}$		0,0008	mA
		$T_j = 125\text{ °C}$			mA
I_{GES}	$V_{CE} = 0\text{ V}$, $V_{GE} = 20\text{ V}$	$T_j = 25\text{ °C}$		100	nA
		$T_j = 125\text{ °C}$			nA
V_{CE0}		$T_j = 25\text{ °C}$		1,2	V
		$T_j = 125\text{ °C}$		1,1	V
r_{CE}	$V_{GE} = 15\text{ V}$	$T_j = 25\text{ °C}$		133	$\text{m}\Omega$
		$T_j = 125\text{ °C}$		183	$\text{m}\Omega$
$V_{CE(sat)}$	$I_{Cnom} = 10\text{ A}$, $V_{GE} = 15\text{ V}$	$T_j = 25\text{ °C}_{chiplev.}$		2	V
		$T_j = 125\text{ °C}_{chiplev.}$		2,2	V
C_{ies}	$V_{CE} = 25$, $V_{GE} = 0\text{ V}$			0,58	nF
C_{oes}				0,07	nF
C_{res}				0,05	nF
$t_{d(on)}$	$R_{Gon} = 210\text{ }\Omega$	$V_{CC} = 300\text{ V}$		45	ns
t_r		$I_{Cnom} = 6\text{ A}$		30	ns
E_{on}	$R_{Goff} = 210\text{ }\Omega$	$T_j = 125\text{ °C}$		0,18	mJ
$t_{d(off)}$		$V_{GE} = \pm 15\text{ V}$		340	ns
t_f				25	ns
E_{off}				0,13	mJ
$R_{th(j-s)}$	per IGBT			2	K/W

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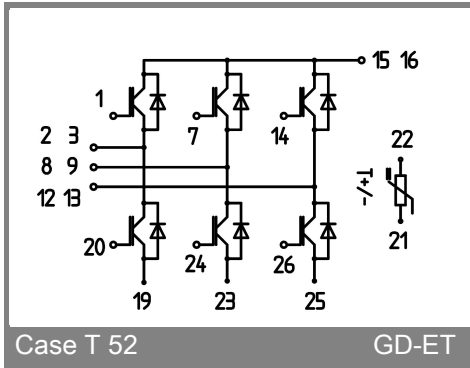


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Case T52 (Suggested hole diameter, in the PCB, for solder pins and plastic mounting pins: 2mm)



Case T 52

GD-ET