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SEMITOR[®] 1

IGBT Module

SK 25 GB 063

SK 25 GAL 063

SK 25 GAR 063

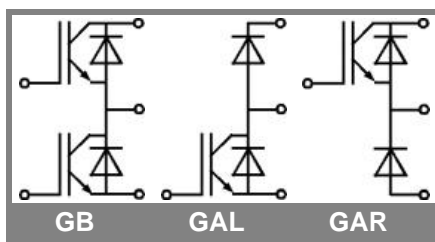
Preliminary Data

Features

- Compact design
- One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DCB)
- N-channel homogeneous silicon structure (NPT-Non punch-through IGBT)
- High short circuit capability
- Low tail current with low temperature dependence
- UL recognized, file no. E 63 532

Typical Applications

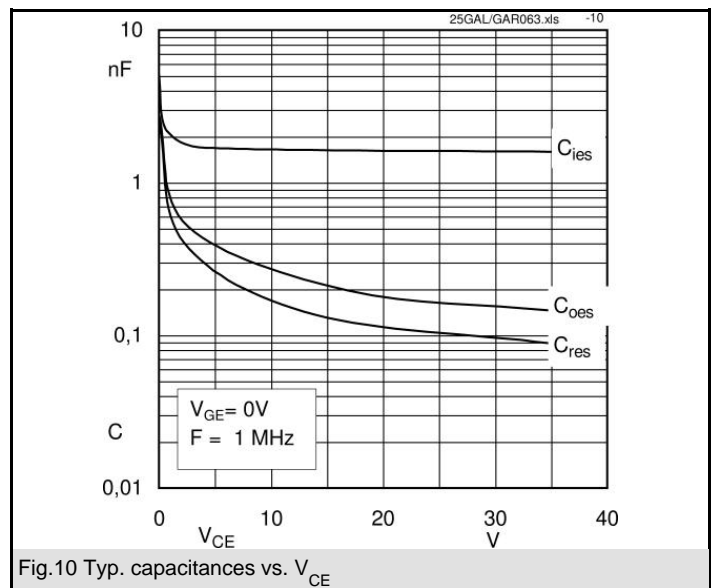
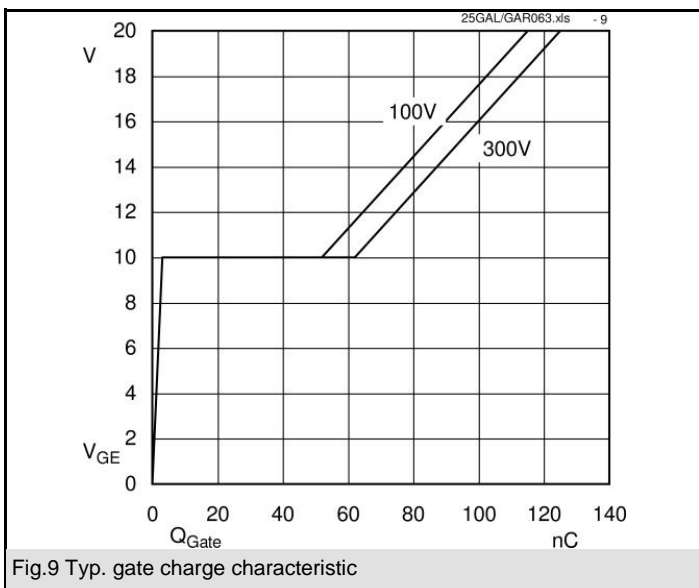
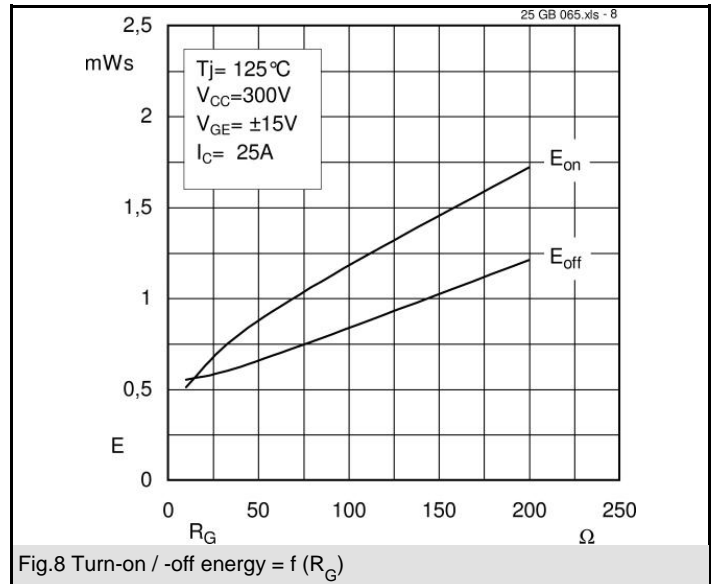
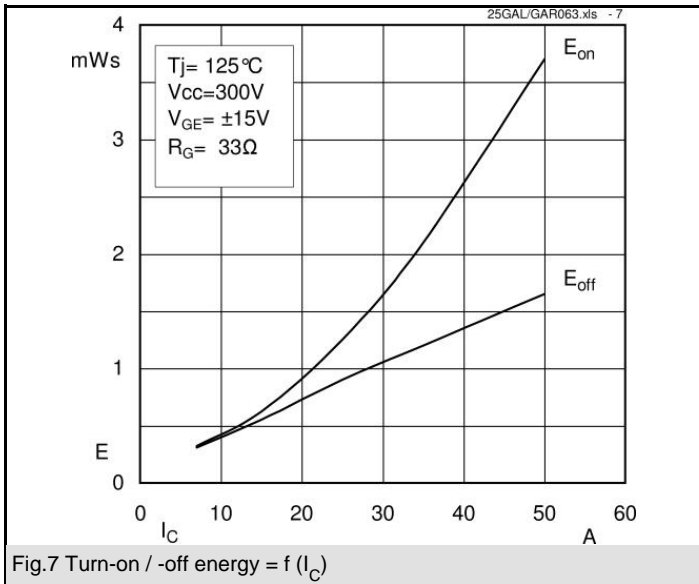
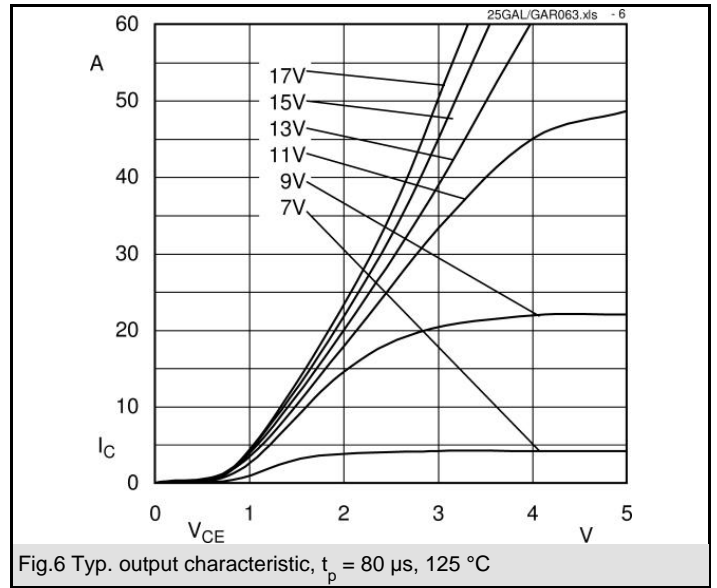
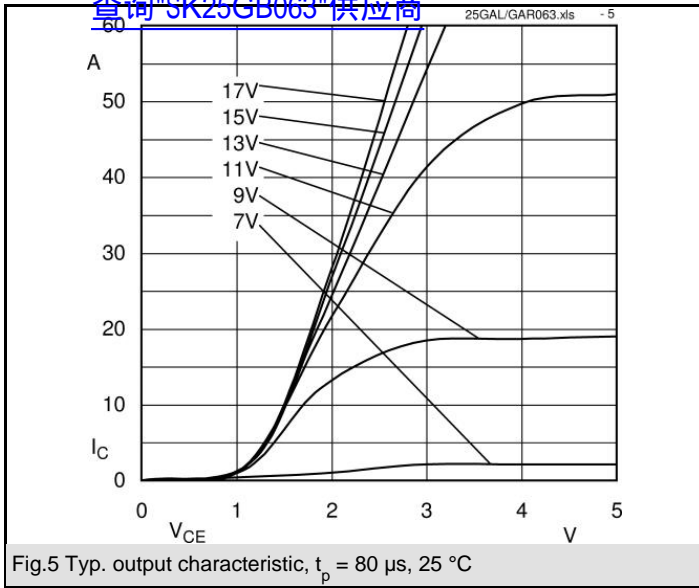
- Switching (not for linear use)
- Inverter
- Switched mode power supplies
- UPS



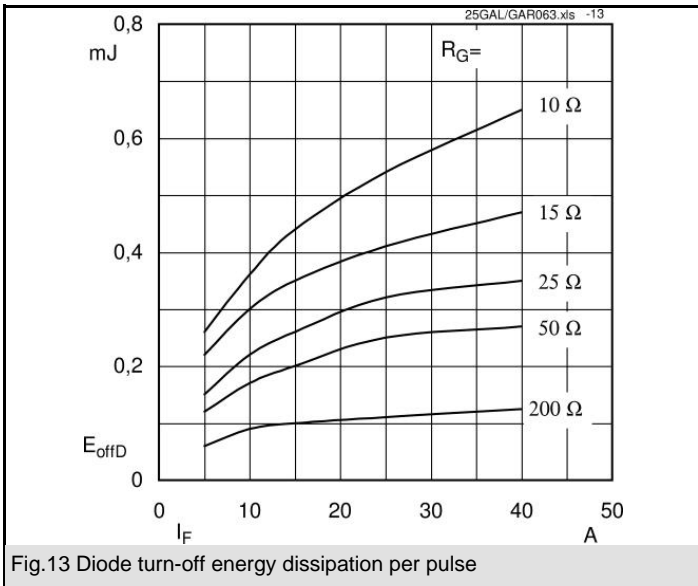
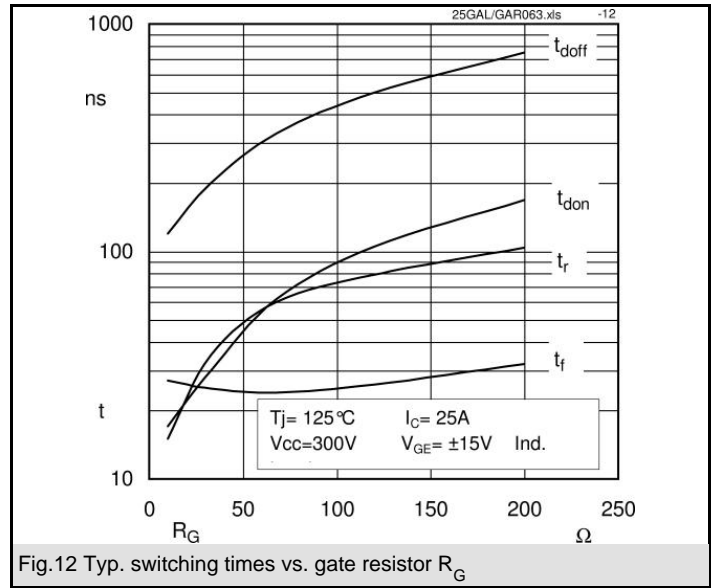
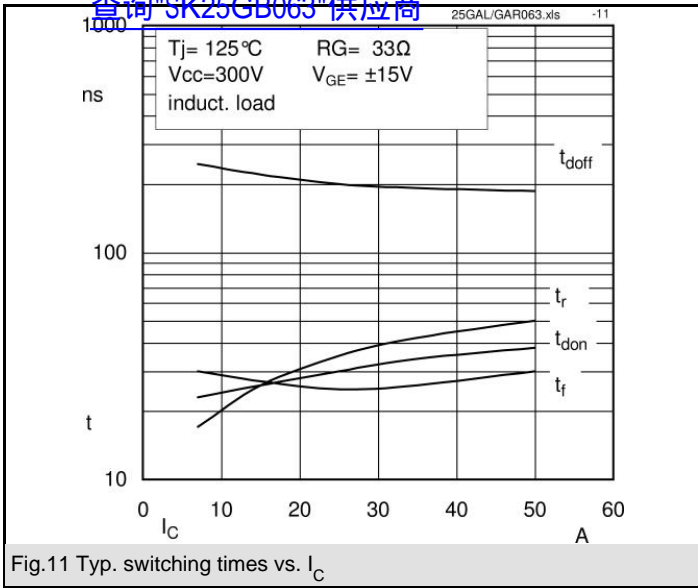
Absolute Maximum Ratings		$T_h = 25\text{ °C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
IGBT			
V_{CES}		600	V
V_{GES}		± 20	V
I_C	$T_s = 25\text{ (80) °C}$;	30 (21)	A
I_{CM}	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) °C}$;	60 (42)	A
T_j		- 40 ... + 150	°C
Inverse / Freewheeling CAL diode			
I_F	$T_s = 25\text{ (80) °C}$;	36 (24)	A
$I_{FM} = -I_{CM}$	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) °C}$;	72 (48)	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		$T_h = 25\text{ °C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT					
$V_{CE(sat)}$	$I_C = 20\text{ A}$, $T_j = 25\text{ (125) °C}$		1,8 (1,9)	2,2 (2,4)	V
$V_{GE(th)}$	$V_{CE} = V_{GE}$; $I_C = A$	4,5	5,5	6,5	V
C_{res}	$V_{CE} = 25\text{ V}$; $V_{GE} = 0\text{ V}$; 1 MHz		1,6		nF
$R_{th(j-s)}$	per IGBT			1,4	K/W
	per module				K/W
$t_{d(on)}$	under following conditions: $V_{CC} = 300\text{ V}$, $V_{GE} = \pm 15\text{ V}$		30		ns
t_r	$I_C = 25\text{ A}$, $T_j = 125\text{ °C}$		35		ns
$t_{d(off)}$	$R_{Gon} = R_{Goff} = 33\ \Omega$		200		ns
t_f			25		ns
$E_{on} + E_{off}$	Inductive load		2,15		mJ
Inverse / Freewheeling CAL diode					
$V_F = V_{EC}$	$I_F = 25\text{ A}$; $T_j = 25\text{ (125) °C}$		1,45 (1,4)	1,7 (1,75)	V
$V_{(TO)}$	$T_j = 125\text{ °C}$		0,85	0,9	V
r_T	$T_j = 125\text{ () °C}$		22	32	mΩ
$R_{th(j-s)}$				1,7	K/W
I_{RRM}	under following conditions: $I_F = 25\text{ A}$; $V_R = 300\text{ V}$		16		A
Q_{rr}	$di_F/dt = -500\text{ A}/\mu\text{s}$		2		μC
E_{off}	$V_{GE} = 0\text{ V}$; $T_j = 125\text{ °C}$		0,25		mJ
Mechanical data					
M1	mounting torque			1,5	Nm
w			13		g
Case	SEMITOR [®] 1		T3		

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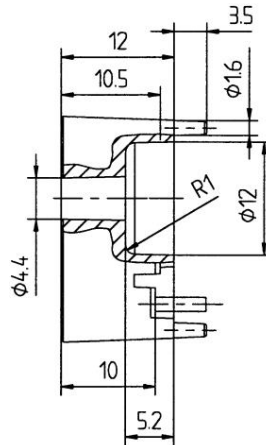
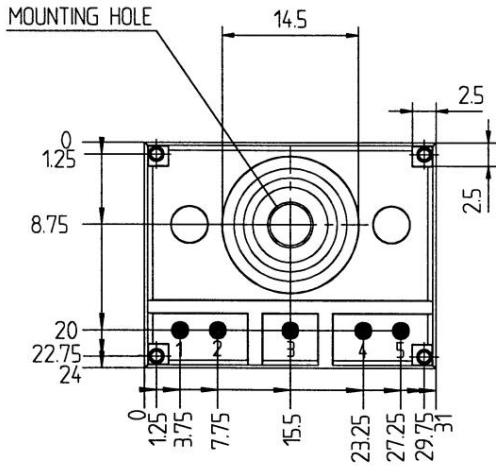
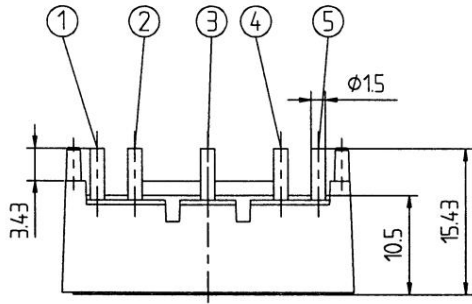


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UL Recognition
File no. E-63532

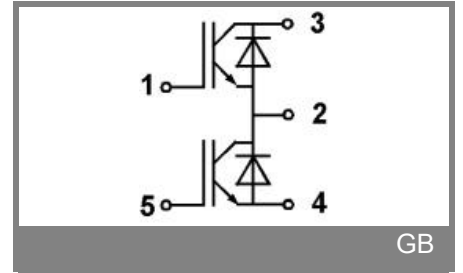
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Dimensions in mm



SUGGESTED HOLEDIAMETER FOR THE SOLDER PINS AND THE MOUNTING PINS IN THE PCB: 2 mm

Case T 3



GB

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

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