

SK 60 GAL 128

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SEMITOR[®] 2

IGBT Module

SK 60 GAR 128

SK 60 GAL 128

Target Data

Features

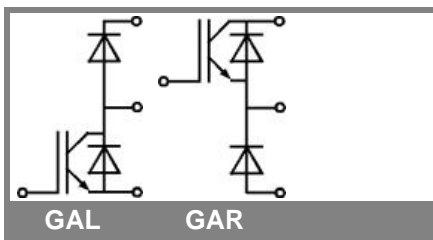
- Compact design
- One screw mounting
- Heat transfer and isolation through direct copper bonding aluminium oxide ceramic (DBC)
- High short circuit capability
- SPT=Soft-Punch-Through technology
- $V_{ce(sat)}$ with positive coefficient

Typical Applications

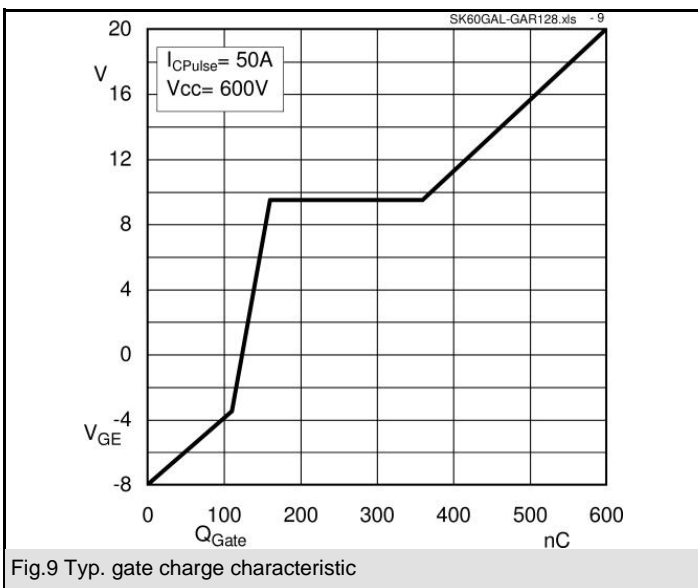
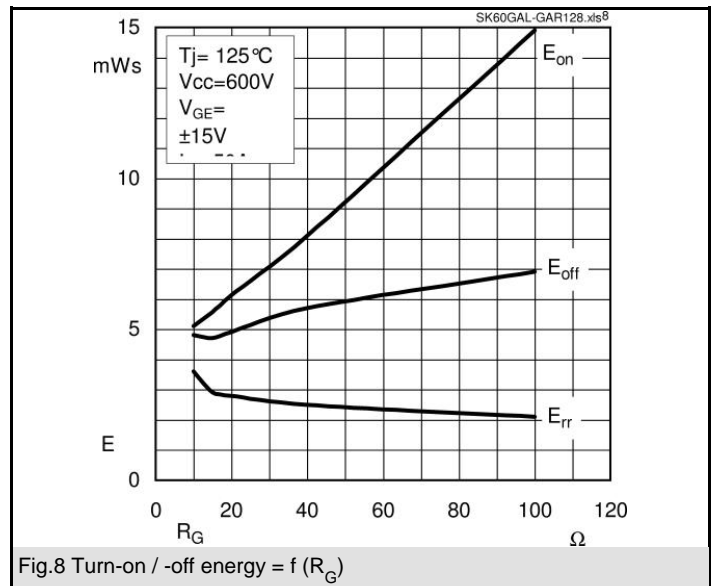
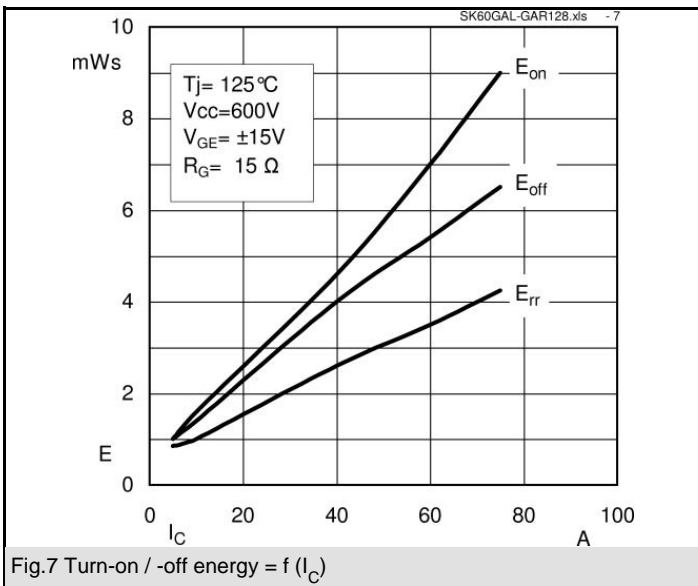
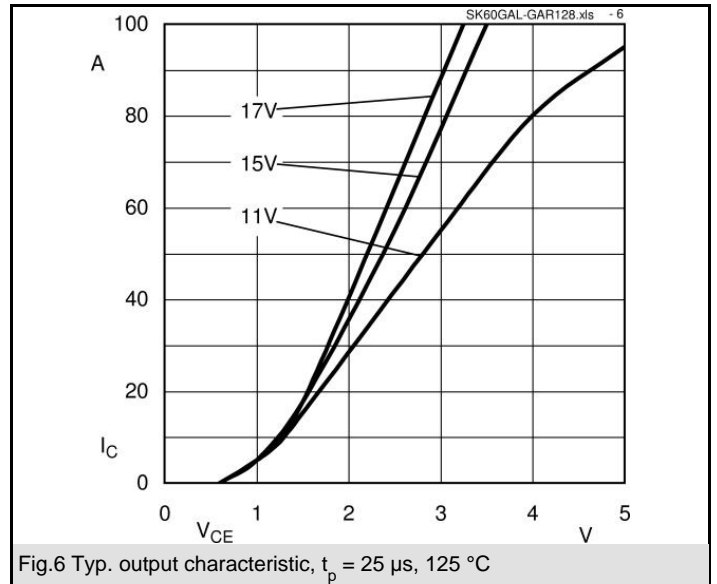
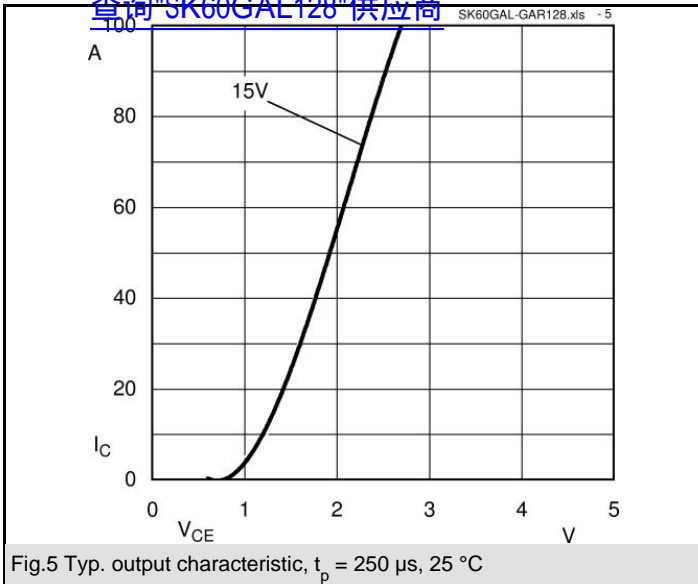
- Switching (not for linear use)
- Inverter
- Switched mode power supplies
- UPS

Absolute Maximum Ratings		$T_s = 25\text{ }^\circ\text{C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
IGBT			
V_{CES}		1200	V
V_{GES}		± 20	V
I_C	$T_s = 25\text{ (80) }^\circ\text{C}$;	63 (44)	A
I_{CM}	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) }^\circ\text{C}$;	130 (90)	A
T_j		- 40 ... + 150	$^\circ\text{C}$
Freewheeling CAL diode			
I_F	$T_s = 25\text{ (80) }^\circ\text{C}$;	57 (38)	A
$I_{FM} = -I_{CM}$	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) }^\circ\text{C}$;	114 (38)	A
T_j		- 40 ... + 150	$^\circ\text{C}$
T_{stg}		- 40 ... + 125	$^\circ\text{C}$
T_{sol}	Terminals, 10 s	260	$^\circ\text{C}$
V_{isol}	AC 50 Hz, r.m.s. 1 min. / 1 s	2500 / 3000	V

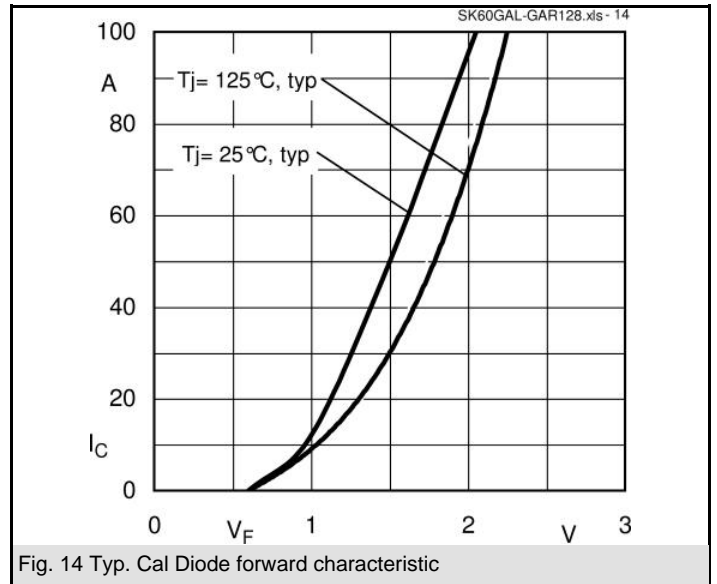
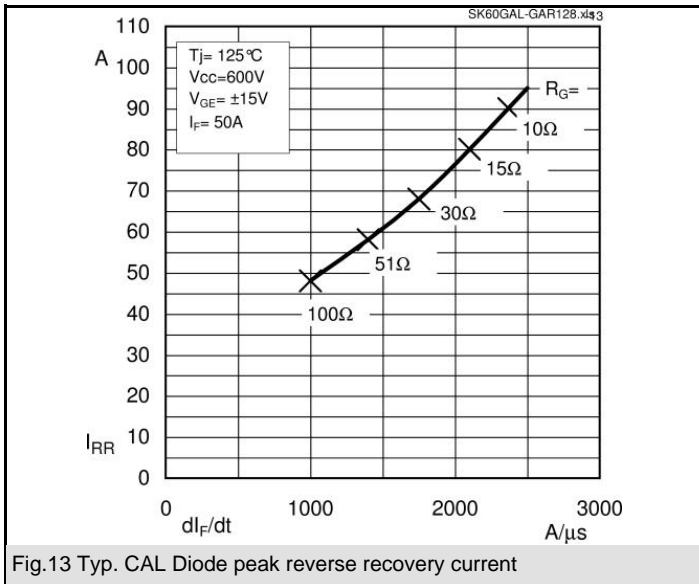
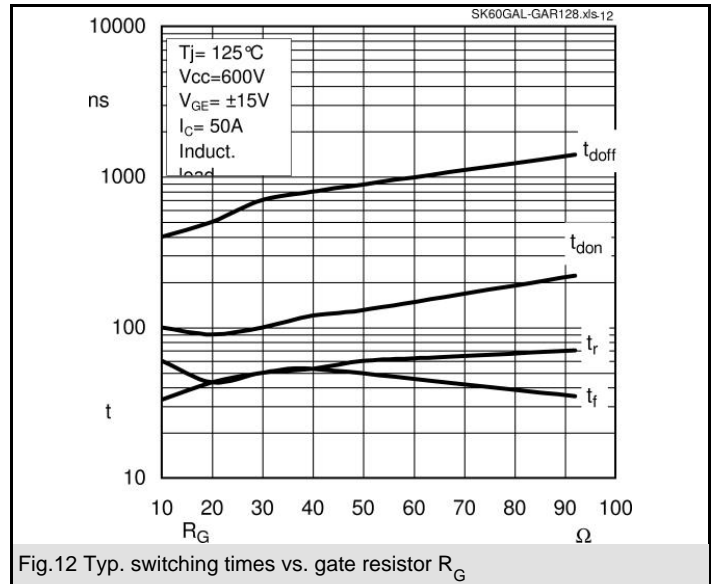
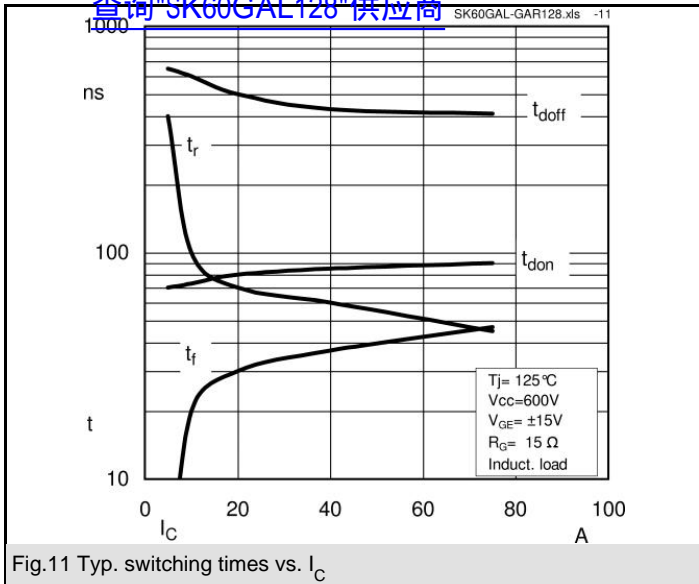
Characteristics		$T_s = 25\text{ }^\circ\text{C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT					
$V_{CE(sat)}$	$I_C = 40\text{ A}$, $T_j = 25\text{ (125) }^\circ\text{C}$		1,8 (1,94)		V
$V_{GE(th)}$	$V_{CE} = V_{GE}$; $I_C = 0,002\text{ A}$	4,5	5,5	6,5	V
C_{res}	$V_{CE} = 25\text{ V}$; $V_{GE} = 0\text{ V}$; 1 MHz		4,5		nF
$R_{th(j-s)}$	per IGBT per module			0,6	K/W K/W
$t_{d(on)}$	under following conditions: $V_{CC} = 600\text{ V}$, $V_{GE} = \pm 15\text{ V}$		80		ns
t_r	$I_C = 50\text{ A}$, $T_j = 125\text{ }^\circ\text{C}$		50		ns
$t_{d(off)}$	$R_{Gon} = R_{Goff} = 15\text{ }^\circ\Omega$		420		ns
t_f			40		ns
$E_{on} + E_{off}$	Inductive load		10,4		mJ
Freewheeling CAL diode					
$V_F = V_{EC}$	$I_F = 50\text{ A}$; $T_j = 25\text{ (125) }^\circ\text{C}$		2 (1,8)		V
$V_{(TO)}$	$T_j = (125)\text{ }^\circ\text{C}$		(1)	(1,2)	V
r_T	$T_j = (125)\text{ }^\circ\text{C}$		(16)	(22)	m Ω
$R_{th(j-s)}$				0,9	K/W
I_{RRM}	under following conditions: $I_F = 50\text{ A}$; $V_R = 600\text{ V}$		40		A
Q_{rr}	$di_F/dt = -800\text{ A}/\mu\text{s}$		8		μC
E_{off}	$V_{GE} = 0\text{ V}$; $T_j = 125\text{ }^\circ\text{C}$		2		mJ
Mechanical data					
M1	mounting torque			2	Nm
w			19		g
Case	SEMITOR [®] 3		T 18		



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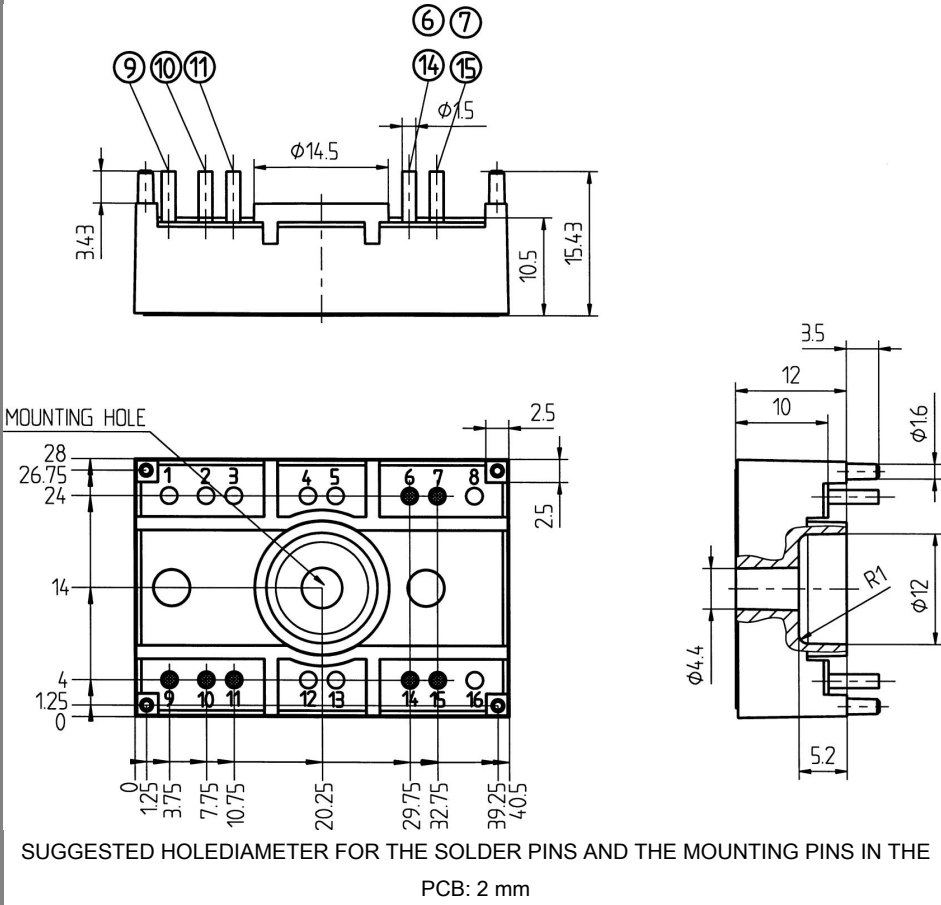
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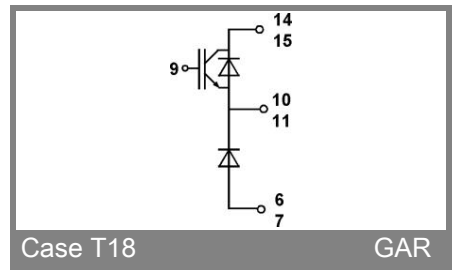
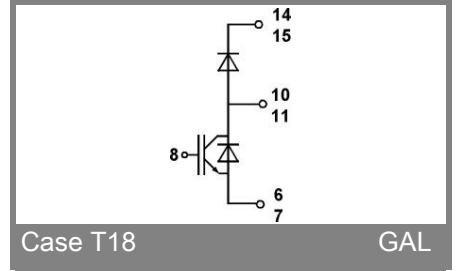
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UL Recognized File no. E-63532
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Dimensions in mm



Case T18



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

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