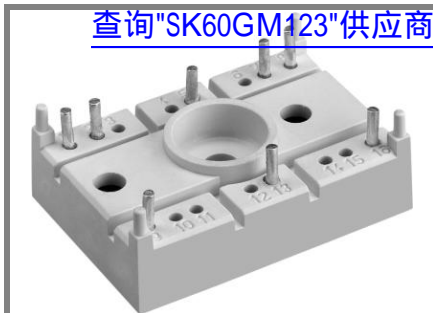


SK 60 GM 123

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SEMISTOP® 2

IGBT Module

SK 60 GM 123

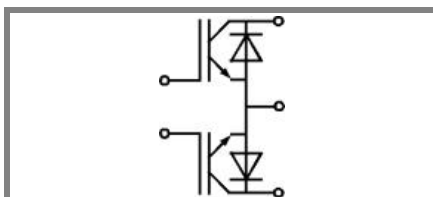
Target Data

Features

- Compact design
- One screw mounting
- Heat transfer and isolation through direct copper bonding aluminium oxide ceramic (DBC)
- High short circuit capability
- Low tail current with low temperature dependence

Typical Applications

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

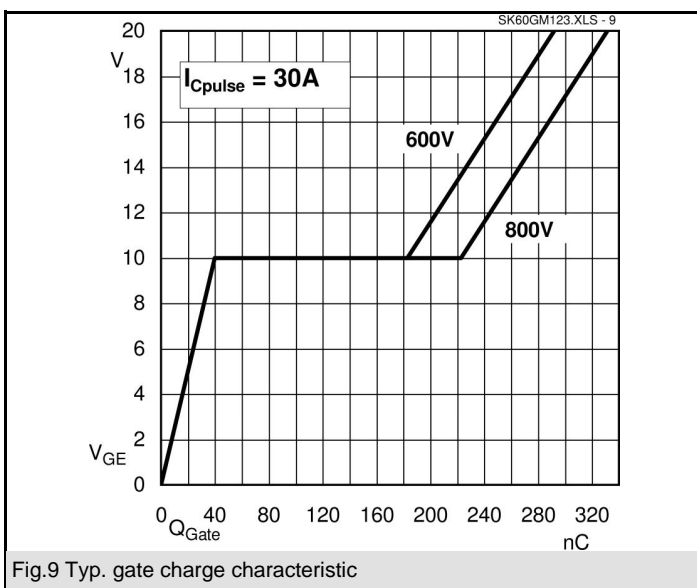
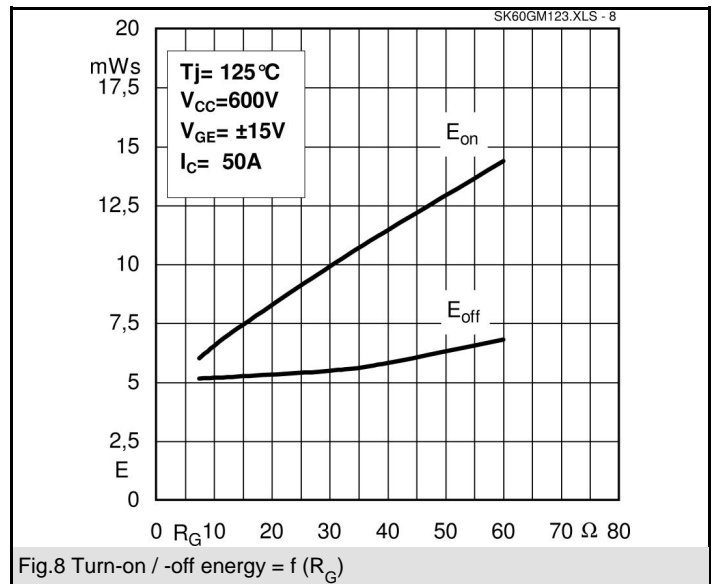
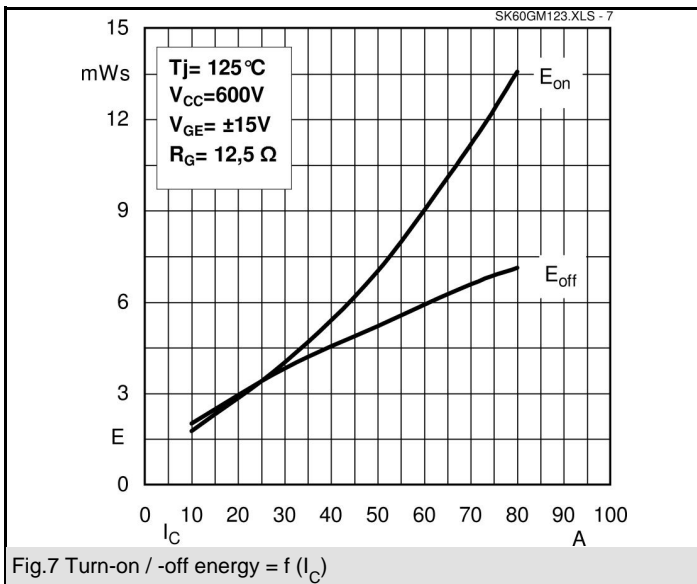
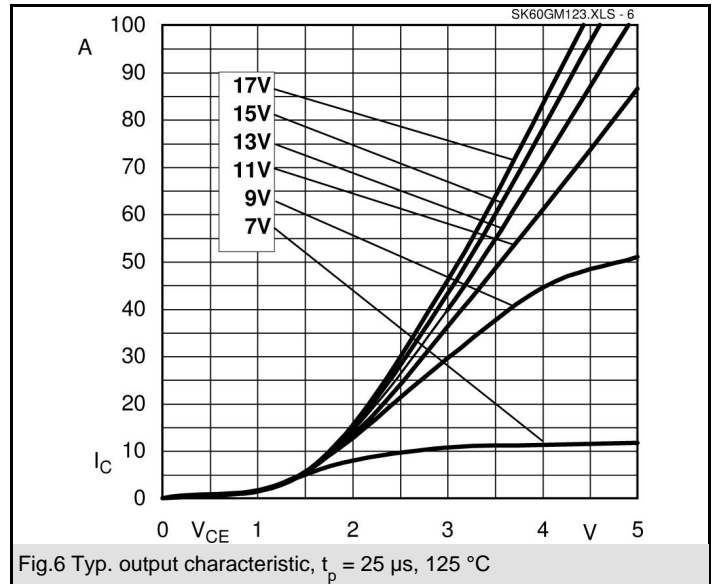
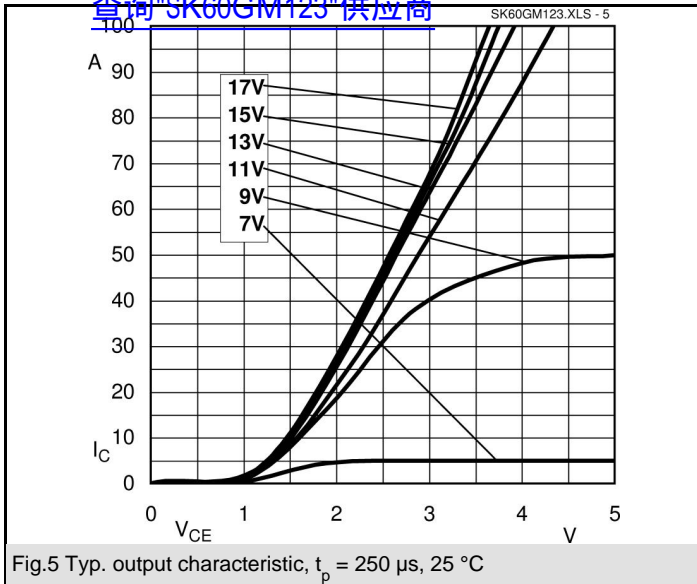


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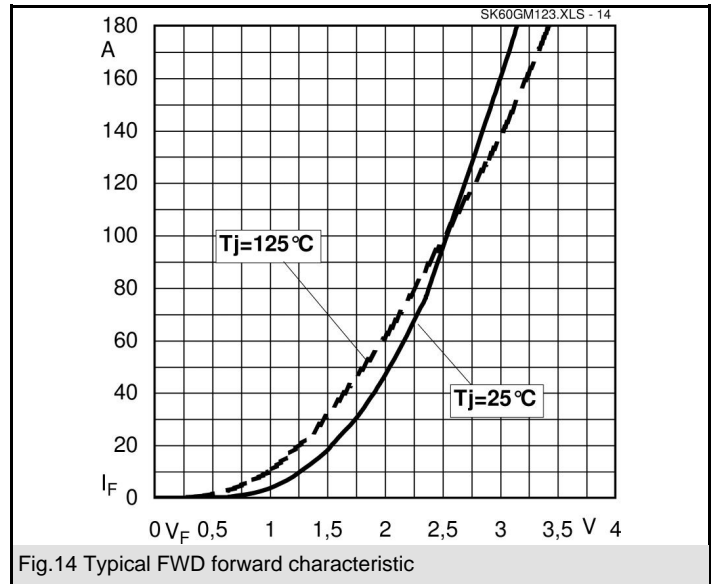
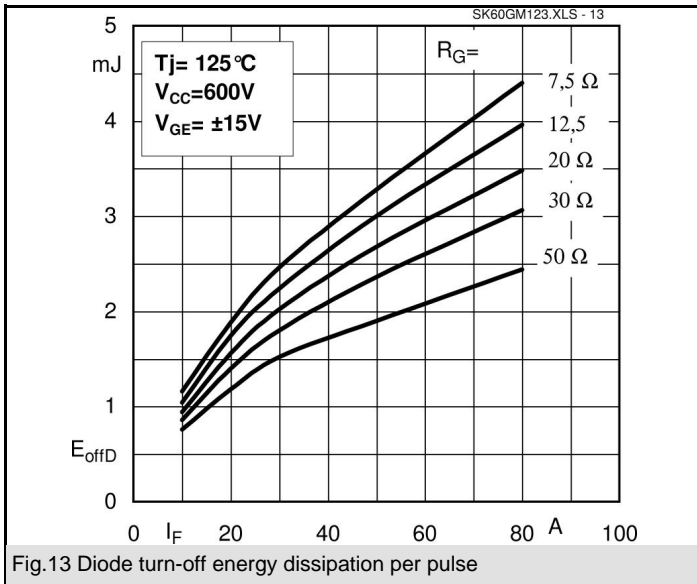
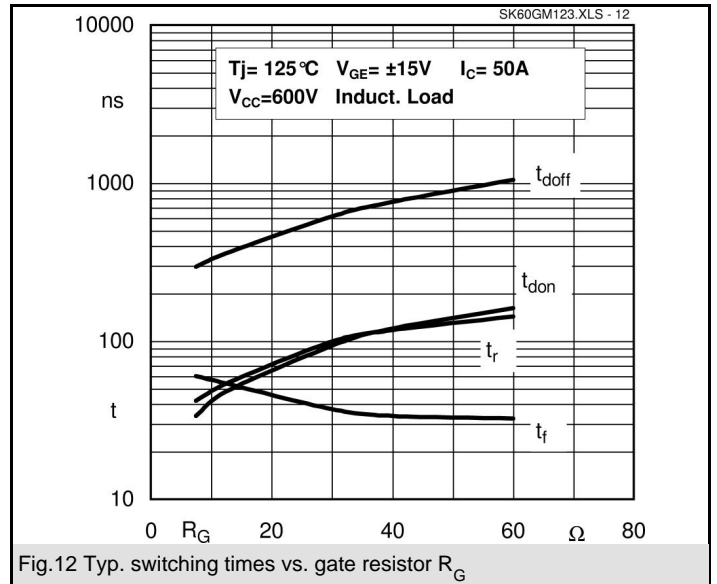
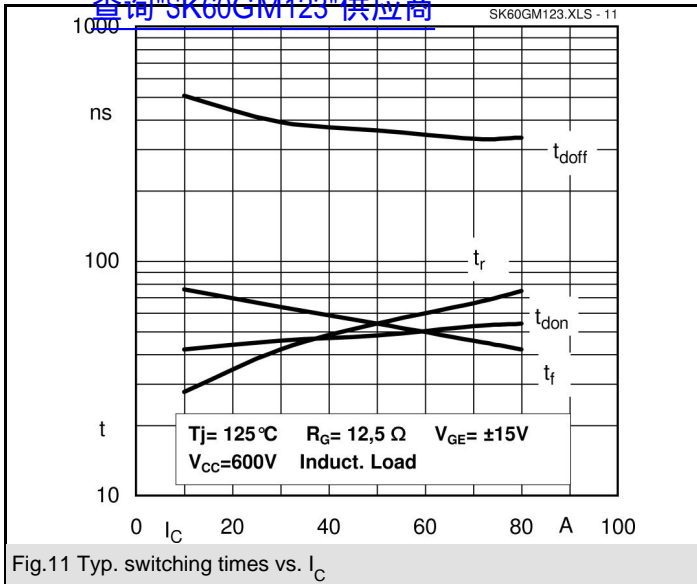
Absolute Maximum Ratings		$T_s = 25\text{ }^\circ\text{C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
IGBT			
V_{CES}		1200	V
V_{GES}		± 20	V
I_C	$T_s = 25\text{ (80) }^\circ\text{C}$;	60 (40)	A
I_{CM}	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) }^\circ\text{C}$;	120 (80)	A
T_j		- 40 ... + 150	$^\circ\text{C}$
Inverse/Freewheeling CAL diode			
I_F	$T_s = 25\text{ (80) }^\circ\text{C}$;	60 (40)	A
$I_{FM} = -I_{CM}$	$t_p < 1\text{ ms}$; $T_s = 25\text{ (80) }^\circ\text{C}$;	120 (80)	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					
$V_{CE(sat)}$	$I_C = 50\text{ A}$, $T_j = 25\text{ (125) }^\circ\text{C}$		2,5 (3,1)	3 (3,7)	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		3,3		nF
$R_{th(j-s)}$	per IGBT			0,6	K/W
	per module				K/W
$t_{d(on)}$	under following conditions: $V_{CC} = 600\text{ V}$, $V_{GE} = \pm 15\text{ V}$		48		ns
t_r	$I_C = 50\text{ A}$, $T_j = 125\text{ }^\circ\text{C}$		54		ns
$t_{d(off)}$	$R_{Gon} = R_{Goff} = 12,5\text{ }\Omega$		360		ns
t_f			54		ns
$E_{on} + E_{off}$	Inductive load		12,2		mJ
Inverse/Freewheeling CAL diode					
$V_F = V_{EC}$	$I_F = 50\text{ A}$; $T_j = 25\text{ (125) }^\circ\text{C}$		2 (1,8)	2,5	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
$R_{th(j-s)}$				0,7	K/W
I_{RRM}	under following conditions: $I_F = 44\text{ A}$; $V_R = 600\text{ V}$		50		A
Q_{rr}	$di_F/dt = -500\text{ A}/\mu\text{s}$		9		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			21		g
Case	SEMISTOP® 2		T 35		

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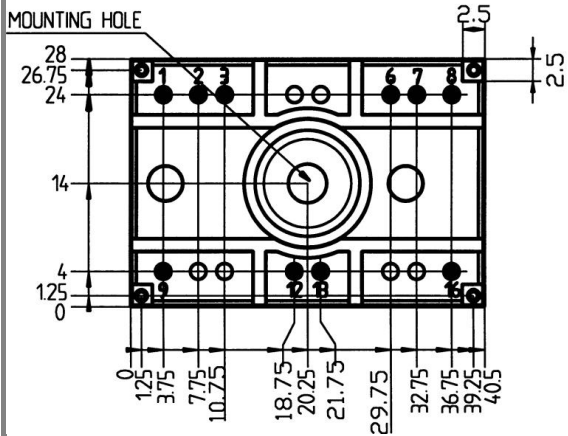
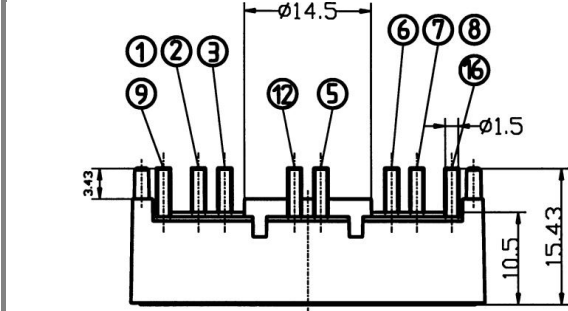


SK 60 GM 123

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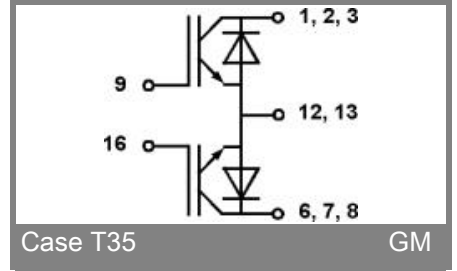
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Dimensions in mm



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

Case T35



Case T35

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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.