

SKM 100GB063D



Superfast NPT-IGBT
Module

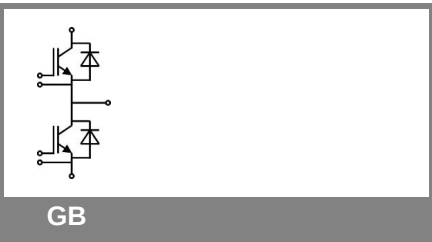
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Features

- N channel, homogeneous Silicon structure (NPT- Non punch through IGBT)
- Low tail current with low temperature dependence
- High short circuit capability, self limiting if term. G is clamped to E
- Pos. temp.-coeff. of V_{CEsat}
- Very low C_{ies} , C_{oes} , C_{res}
- Latch-up free
- Fast & soft inverse CAL diodes
- Isolated copper Bonding Technology without hard mould
- Large clearance (10 mm) and creepage distances (20 mm)

Typical Applications

- Switching (not for linear use)
- Switched mode power supplies
- UPS
- Three phase inverters for servo / AC motor speed control
- Pulse frequencies also above 10 kHz



Characteristics					
Symbol	Conditions	min.	typ.	max.	Units
Inverse Diode					
$V_F = V_{EC}$	$I_{Fnom} = 100\text{ A}$; $V_{GE} = 0\text{ V}$ $T_j = 25\text{ }^{\circ}\text{C}_{chiplev.}$ $T_j = 125\text{ }^{\circ}\text{C}_{chiplev.}$		1,55 1,55	1,9	V V
V_{F0}	$T_j = 125\text{ }^{\circ}\text{C}$			0,9	V
r_F	$T_j = 125\text{ }^{\circ}\text{C}$		8	10	mΩ
I_{RRM} Q_{rr} E_{rr}	$I_{Fnom} = 100\text{ A}$ $T_j = 125\text{ }^{\circ}\text{C}$ $V_{GE} = -15\text{ V}$; $V_{CC} = 300\text{ V}$		44 6		A μC mJ
$R_{th(j-c)D}$	per diode			0,6	K/W
Module					
L_{CE}				30	nH
$R_{CC'+EE'}$	res., terminal-chip $T_{case} = 25\text{ }^{\circ}\text{C}$ $T_{case} = 125\text{ }^{\circ}\text{C}$		0,75 1		mΩ mΩ
$R_{th(c-s)}$	per module			0,05	K/W
M_s	to heat sink M6	3		5	Nm
M_t	to terminals M5	2,5		5	Nm
w				160	g

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.

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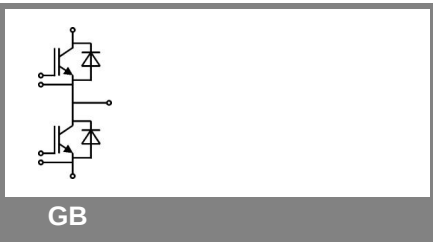
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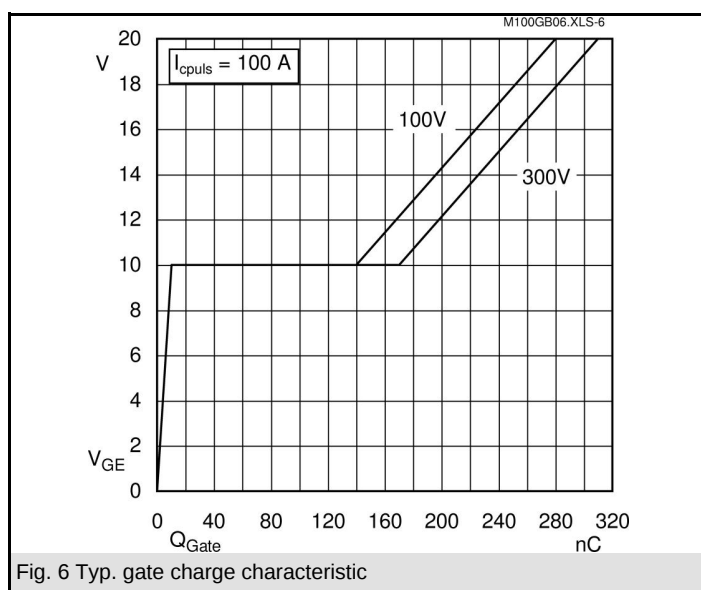
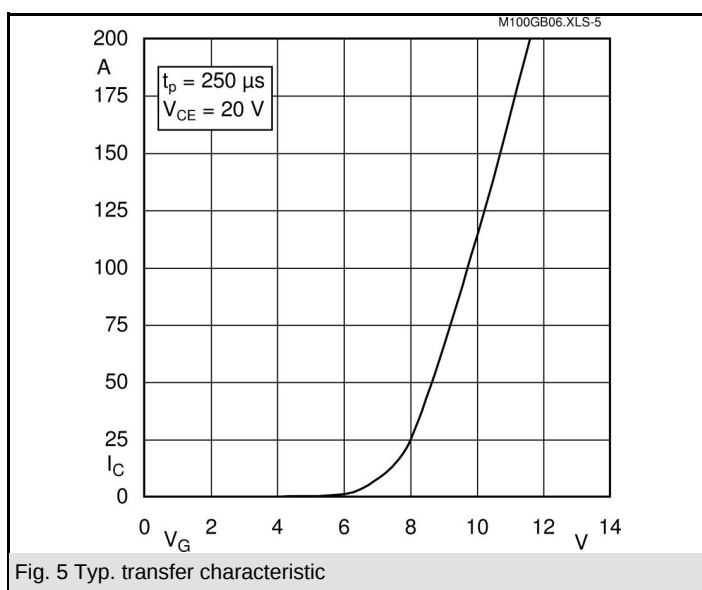
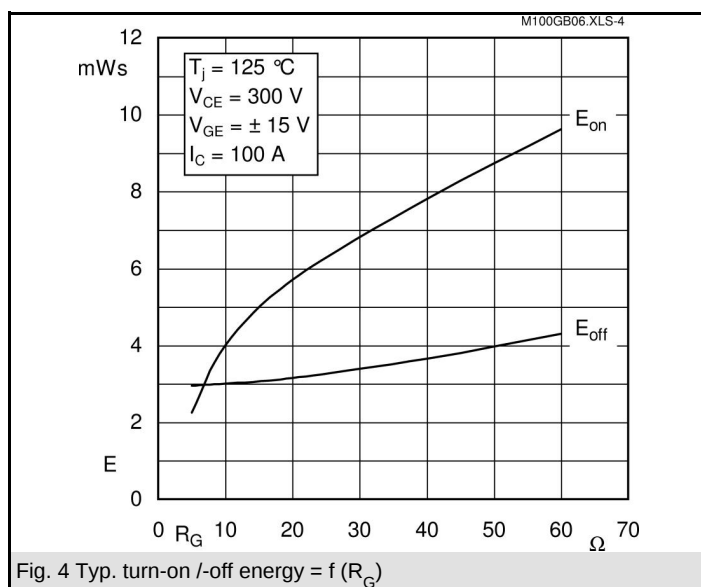
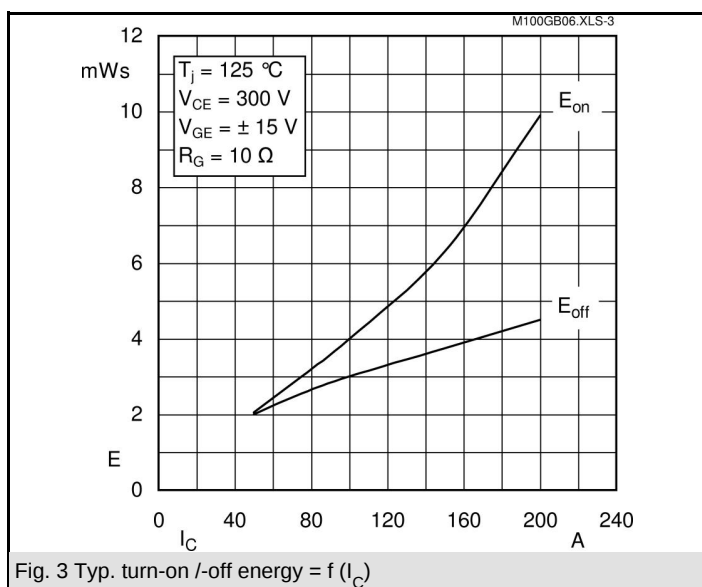
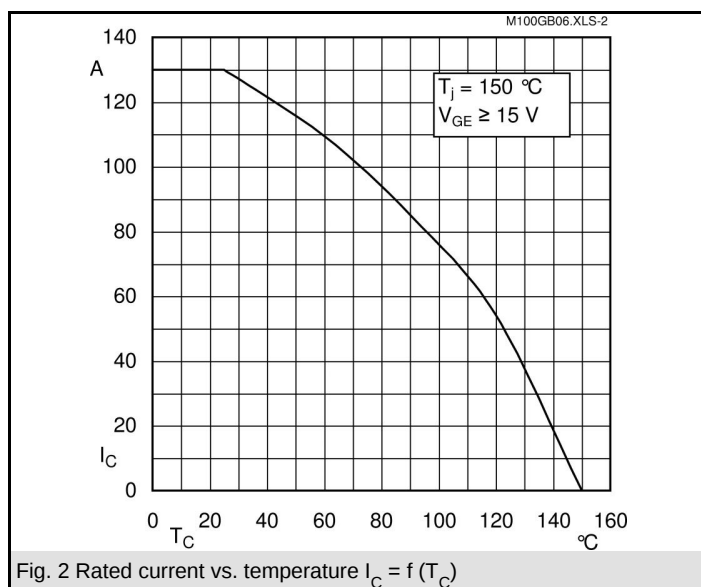
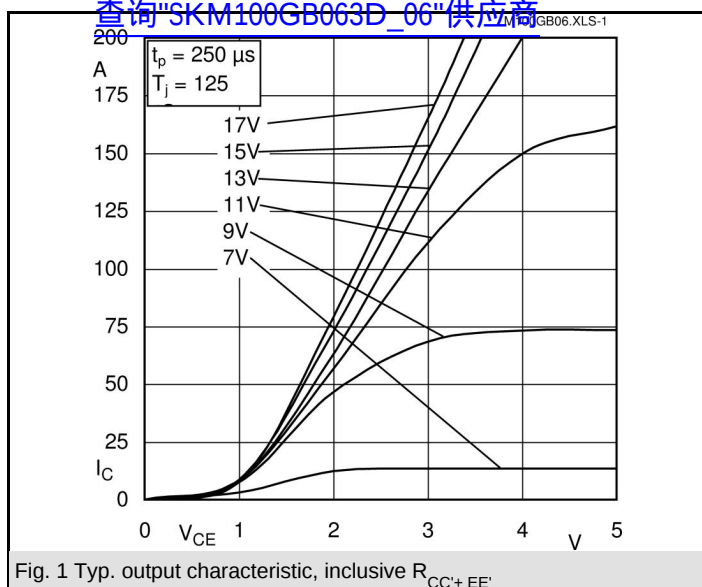
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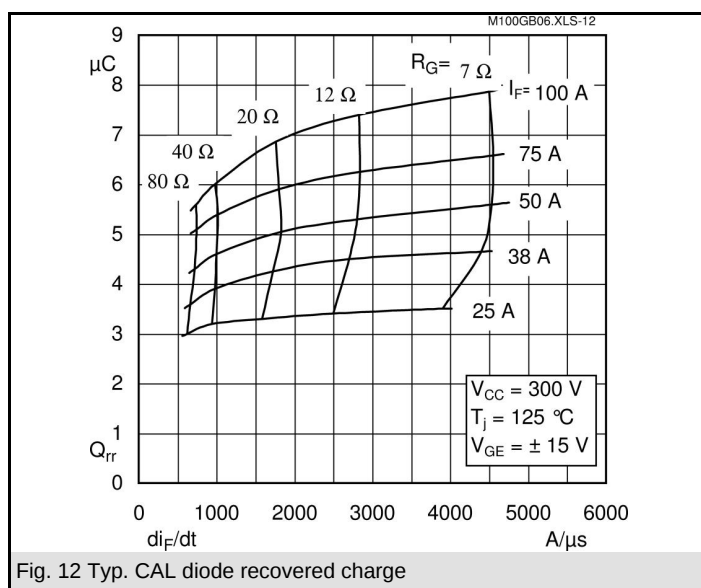
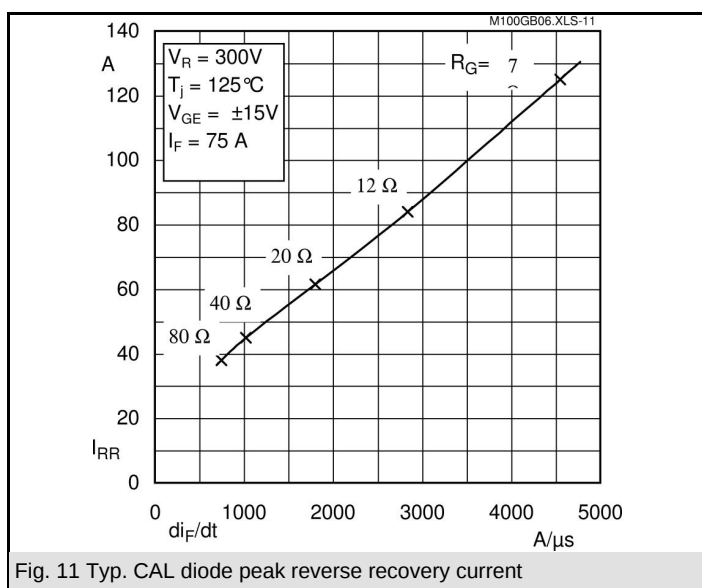
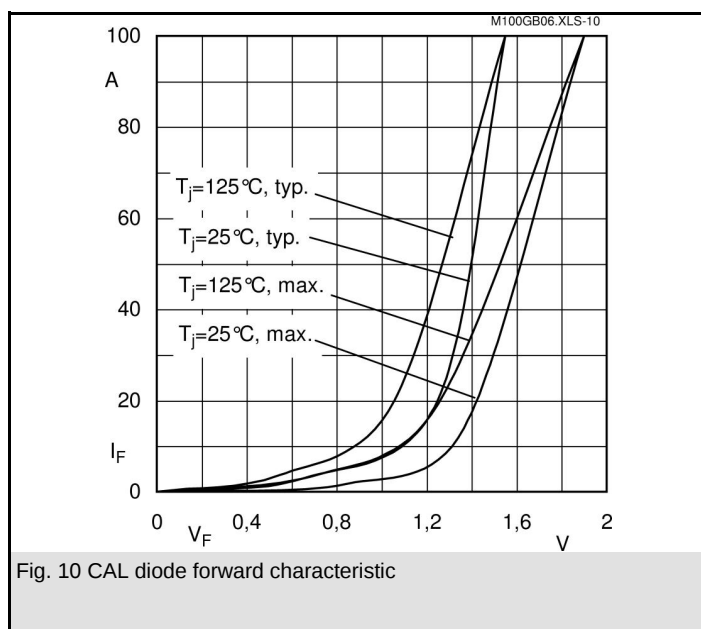
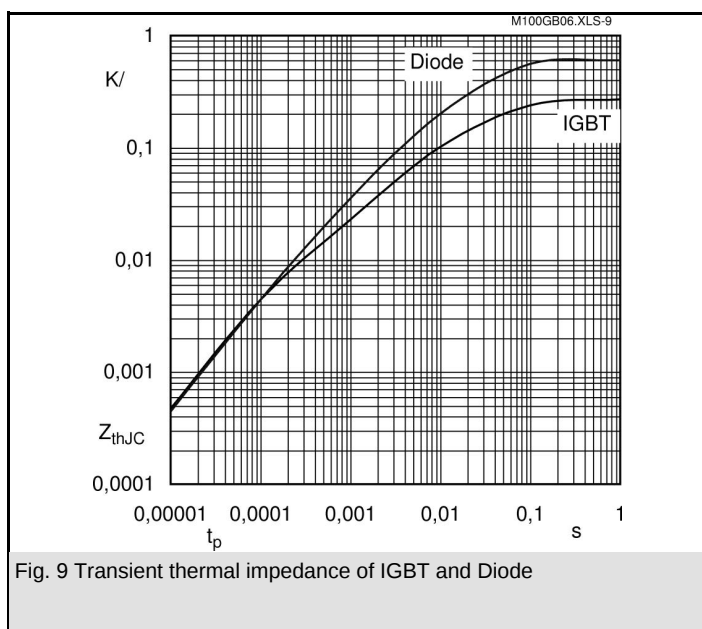
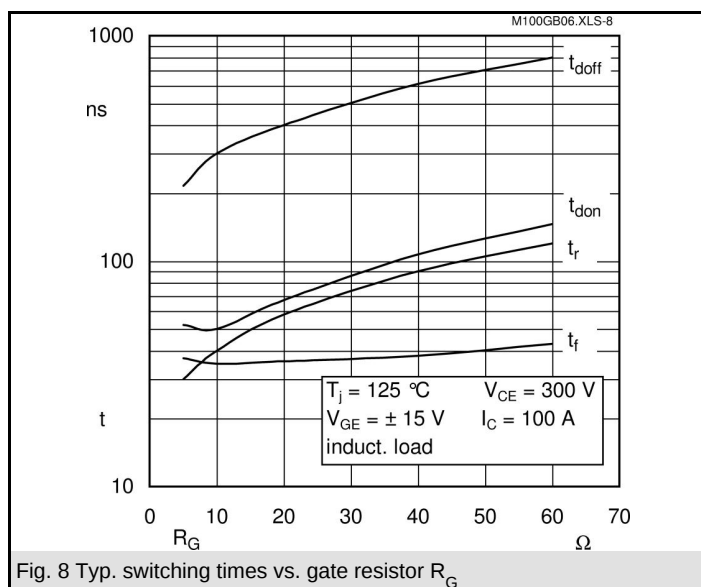
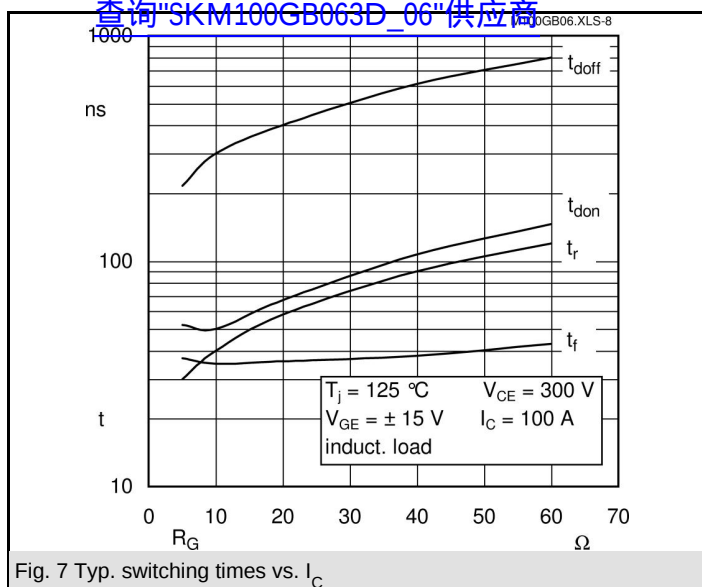


Symbol	Conditions	Values	Units
$Z_{th(j-c)I}$			
R_i	$i = 1$	160	mk/W
R_i	$i = 2$	88	mk/W
R_i	$i = 3$	18	mk/W
R_i	$i = 4$	4	mk/W
τ_{ui}	$i = 1$	0,0447	s
τ_{ui}	$i = 2$	0,0087	s
τ_{ui}	$i = 3$	0,0015	s
τ_{ui}	$i = 4$	0,0002	s
$Z_{th(j-c)D}$			
R_i	$i = 1$	400	mk/W
R_i	$i = 2$	165	mk/W
R_i	$i = 3$	30,5	mk/W
R_i	$i = 4$	4,5	mk/W
τ_{ui}	$i = 1$	0,0613	s
τ_{ui}	$i = 2$	0,0085	s
τ_{ui}	$i = 3$	0,0045	s
τ_{ui}	$i = 4$	0,0003	s

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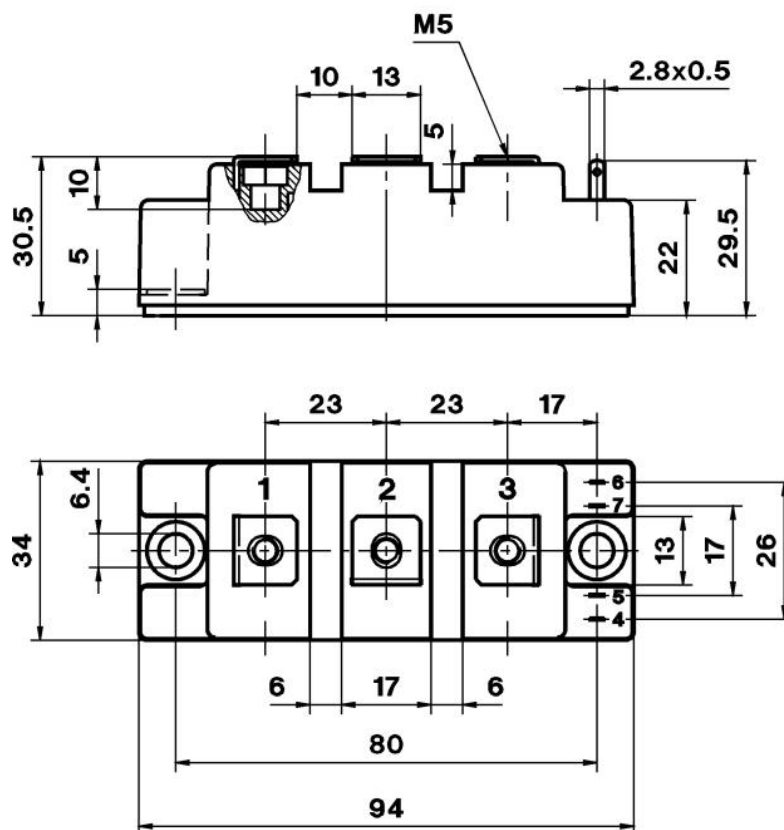


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CASED61

no. E 63 532



Case D 61

