

SEMiX 202GB066HDs

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SEMiX® 2s

Trench IGBT Modules

SEMiX 202GB066HDs

Preliminary Data

Features

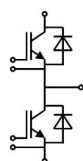
- Homogeneous Si
- Trench = Trenchgate technology
- $V_{CE(sat)}$ with positive temperature coefficient

Typical Applications

- Matrix Converter
- Resonant Inverter
- Current Source Inverter

Remarks

- Case temperatur limited to $T_C=125^\circ\text{C}$ max.
- Product reliability results are valid for $T_J=150^\circ\text{C}$
- use of soft RG necessary
- take care of over-voltage caused by stray inductance



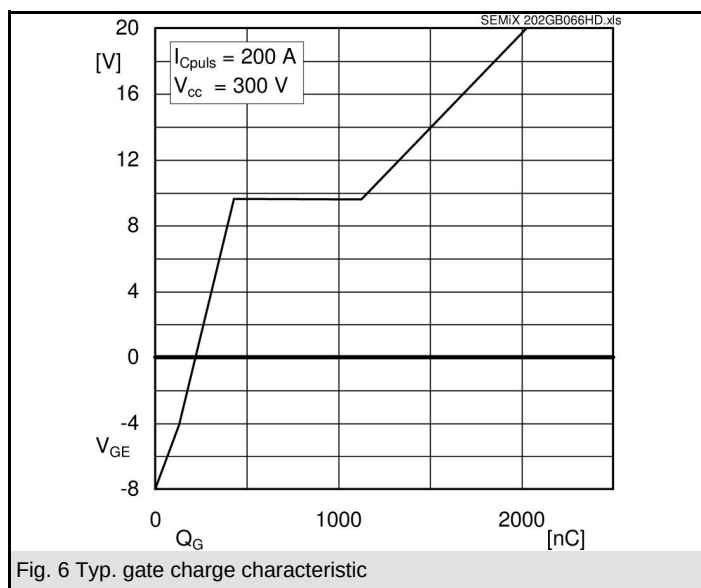
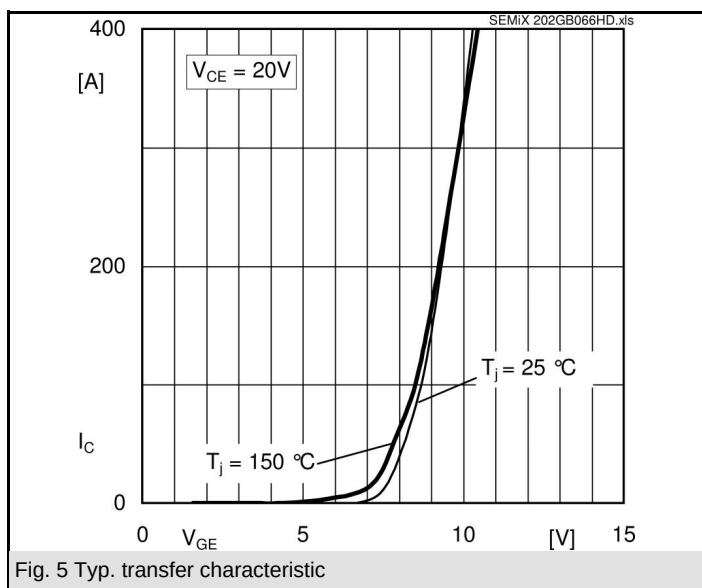
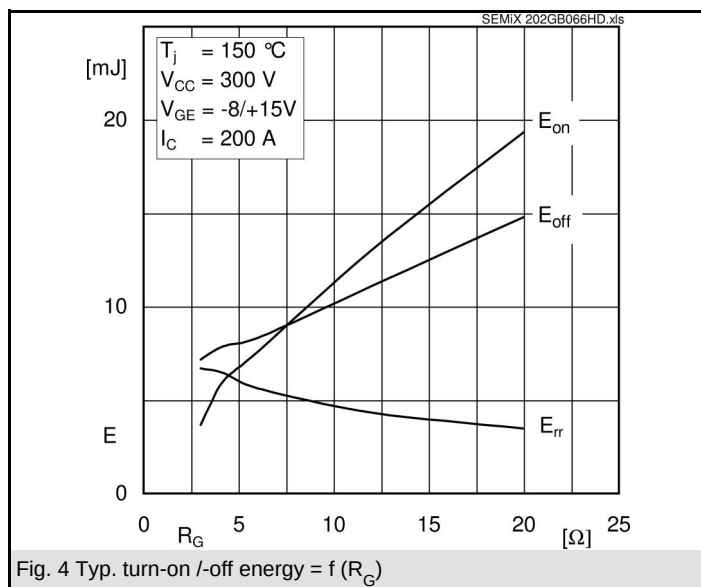
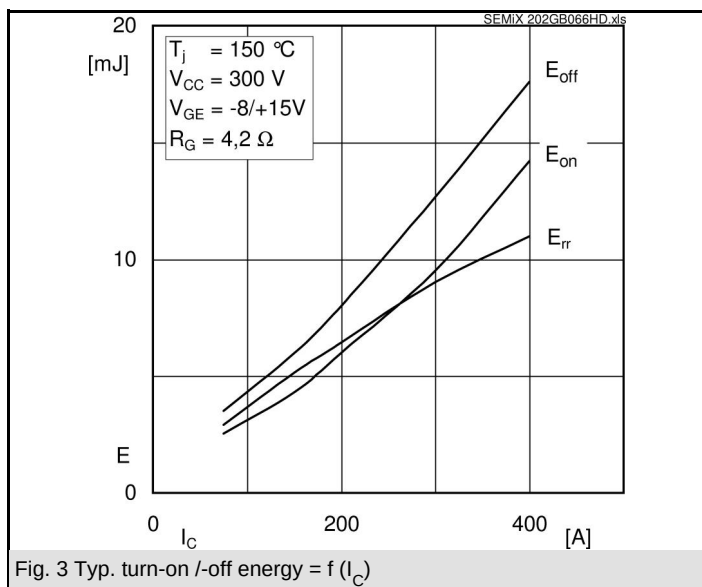
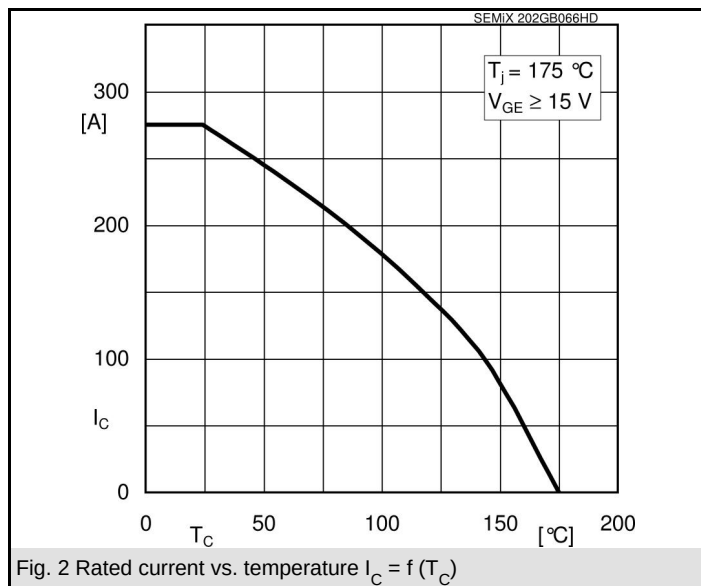
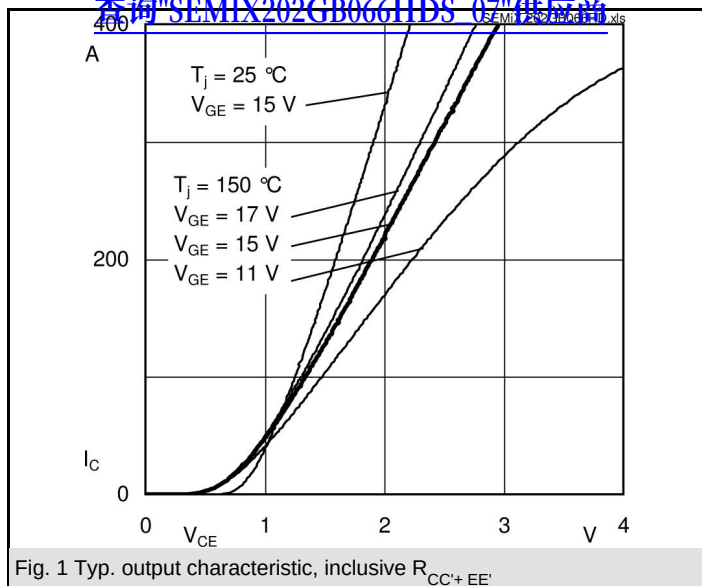
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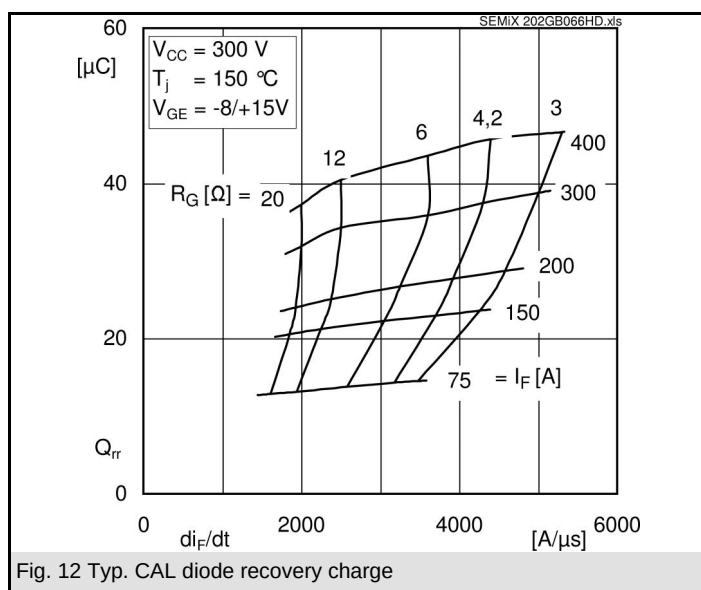
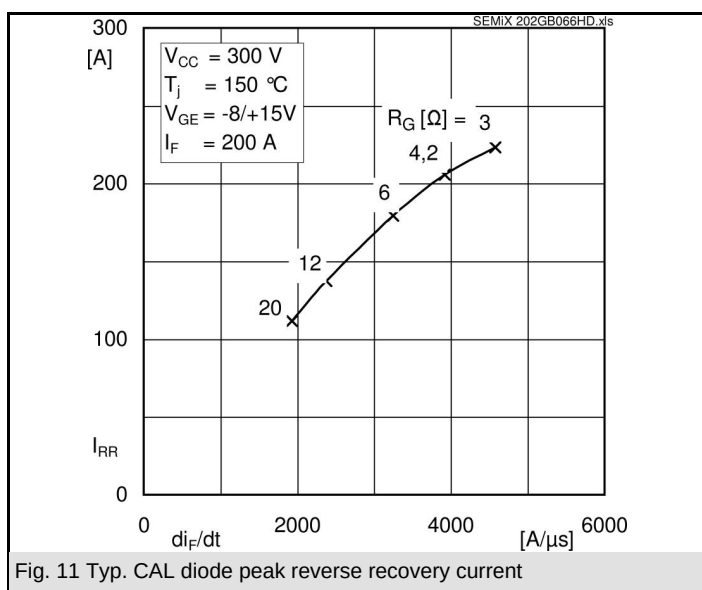
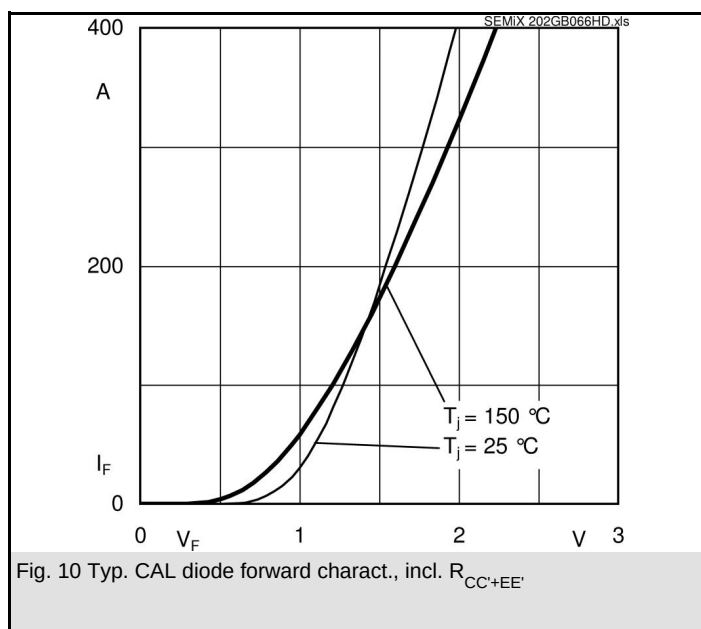
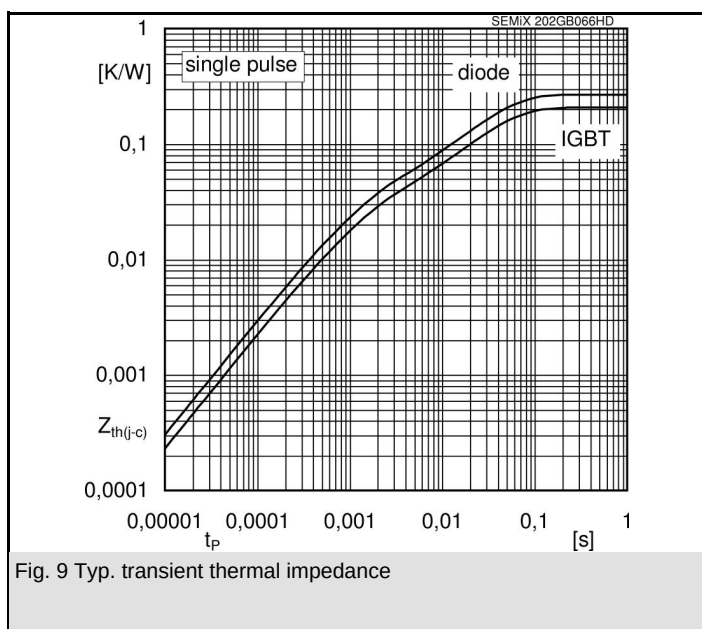
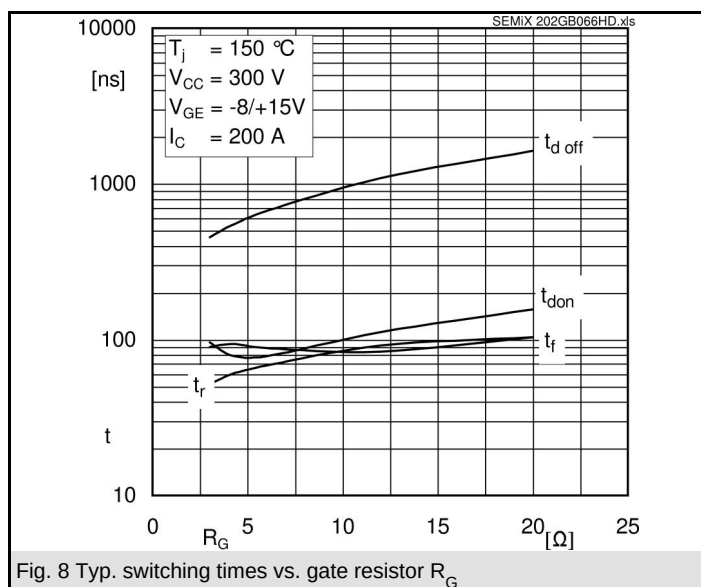
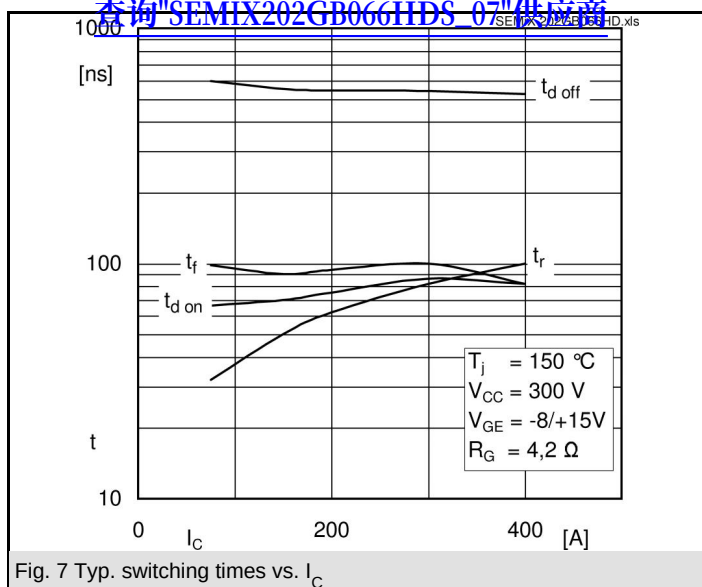
Absolute Maximum Ratings		T _{case} = 25°C, unless otherwise specified		
Symbol	Conditions	Values	Units	
IGBT				
V _{CES}	T _j = 25 °C	600	V	
I _C	T _j = 175 °C	T _c = 25 °C	275	A
		T _c = 80 °C	205	A
I _{CRM}	I _{CRM} =2xI _{Cnom}	400	A	
V _{GES}		± 20	V	
t _{psc}	V _{CC} = 360 V; V _{GE} ≤ 15 V; T _j = 150 °C V _{CES} < 600 V	6	μs	
Inverse Diode				
I _F	T _j = 175 °C	T _c = 25 °C	290	A
		T _c = 80 °C	210	A
I _{FRM}	I _{FRM} =2xI _{Fnom}	400	A	
I _{FSM}	t _p = 10 ms; sin. T _j = 25 °C	1000	A	
Module				
I _{t(RMS)}		600	A	
T _{vj}		- 40 ... + 175	°C	
T _{stg}		- 40 ... + 125	°C	
V _{isol}	AC, 1 min.	4000	V	

Characteristics		T _{case} = 25°C, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT					
V _{GE(th)}	V _{GE} = V _{CE} , I _C = 3,2 mA		5,8		V
I _{CES}	V _{GE} = 0 V, V _{CE} = V _{CES} T _J = 25 °C			0,45	mA
V _{CE0}		T _J = 25 °C	0,9	1	V
		T _J = 150 °C	0,85	0,9	V
r _{CE}	V _{GE} = 15 V	T _J = 25°C	2,75	4,5	mΩ
		T _J = 150°C	4,25	6	mΩ
V _{CE(sat)}	I _{Cnom} = 200 A, V _{GE} = 15 V	T _J = 25°C _{chiplev.}	1,45	1,9	V
		T _J = 150°C _{chiplev.}	1,7	2,1	V
C _{ies}	V _{CE} = 25, V _{GE} = 0 V f = 1 MHz		12,1		nF
C _{oes}			0,75		nF
C _{res}			0,35		nF
Q _G	V _{GE} = -8 ... +15V		1600		nC
t _{d(on)}	R _{Gon} = 4,2 Ω	V _{CC} = 300V I _{Cnom} = 200A T _J = 150 °C	65		ns
t _r			80		ns
E _{on}	6		mJ		
t _{d(off)}	R _{Goff} = 4,2 Ω		545		ns
t _f			95		ns
E _{off}		8		mJ	
R _{th(j-c)}	per IGBT		0,21		K/W

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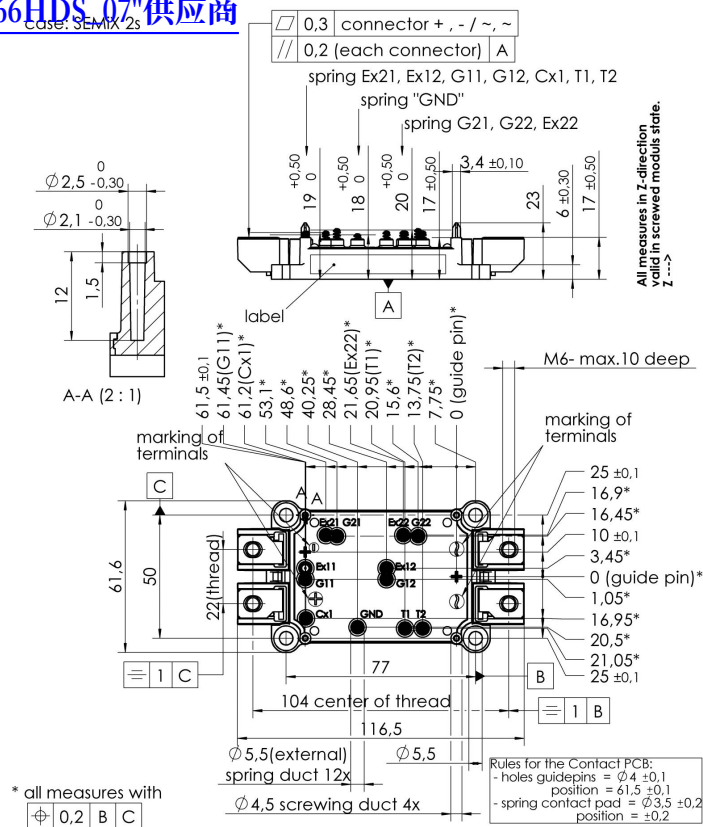


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CASE: SEMIX 2s



Case SEMiX 2s

