

SEMiX 101GD128Ds

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SEMiX® 13s

SPT IGBT Modules

SEMiX 101GD128Ds

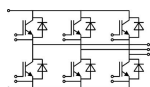
Preliminary Data

Features

- Homogeneous Si
- SPT = Soft-Punch-Through technology
- $V_{CE(sat)}$ with positive temperature coefficient
- High short circuit capability

Typical Applications

- AC inverter drives
- UPS
- Electronic welders up to 20 kHz



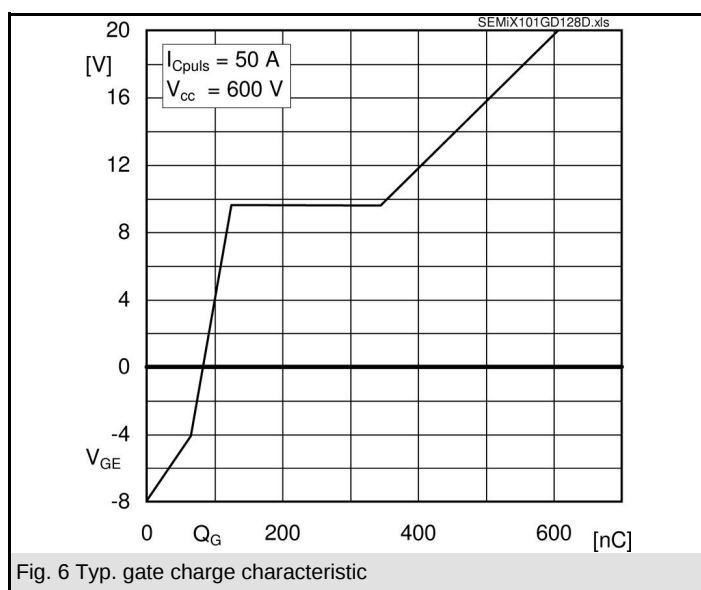
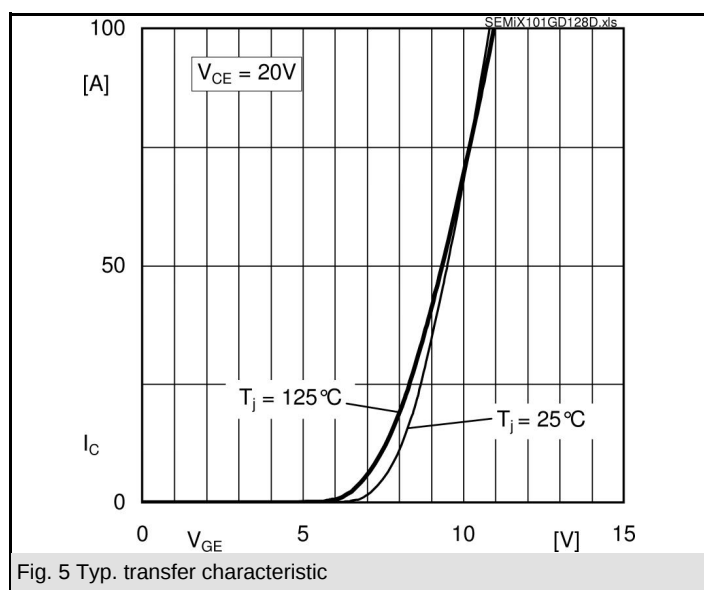
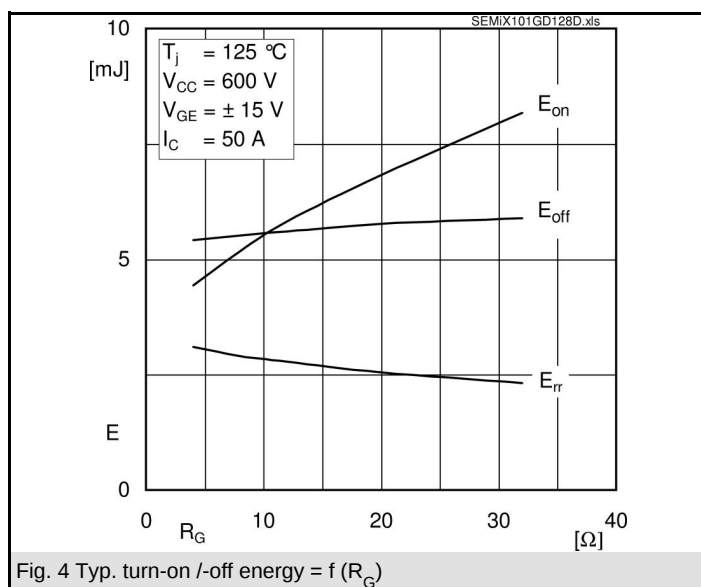
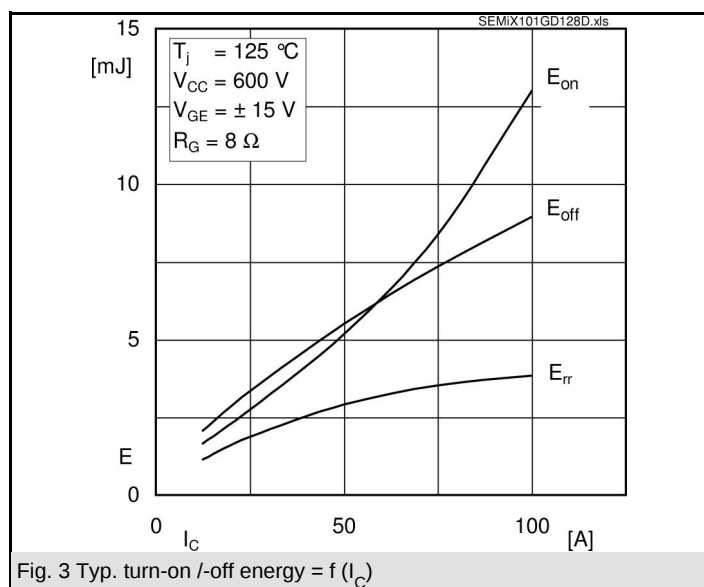
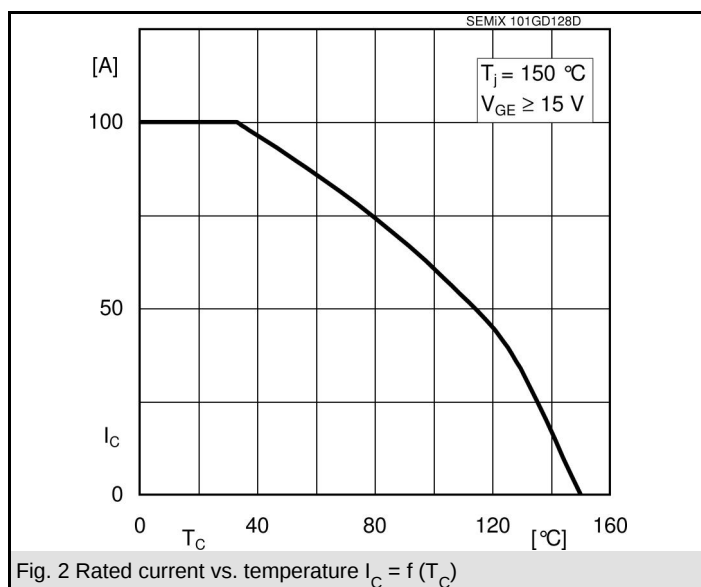
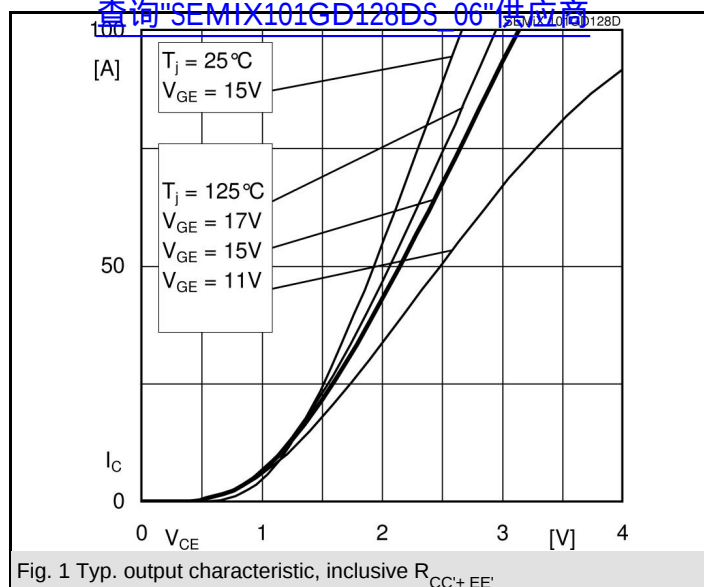
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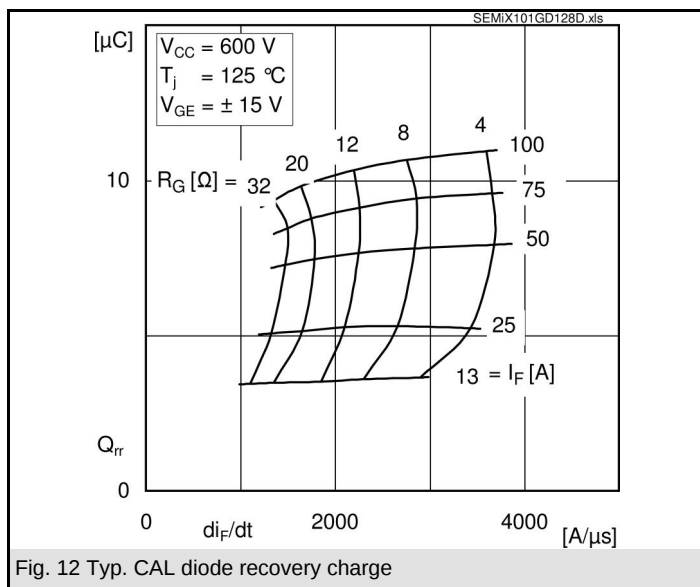
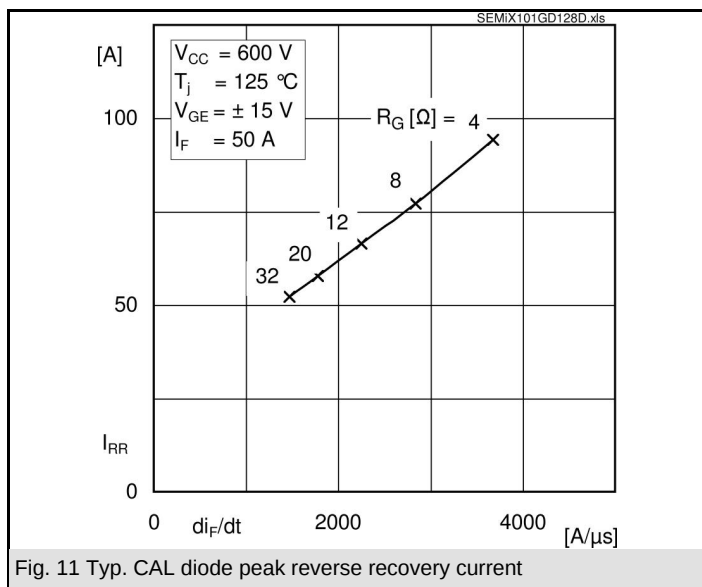
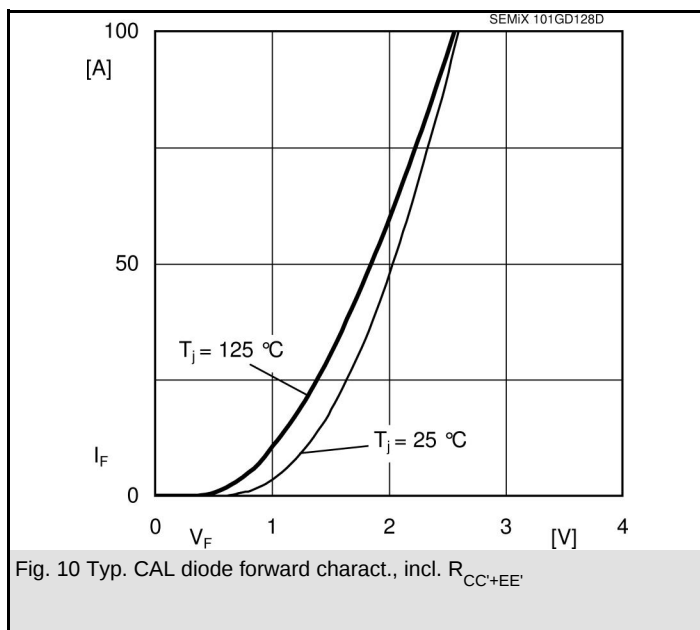
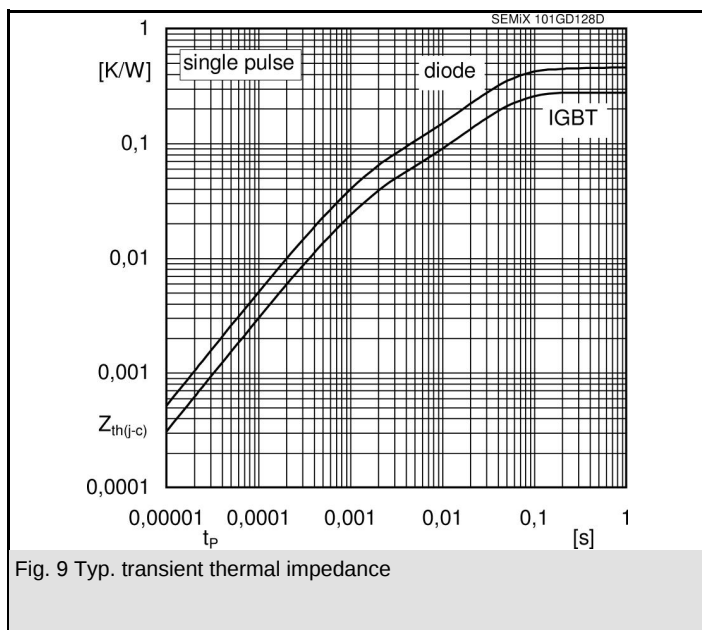
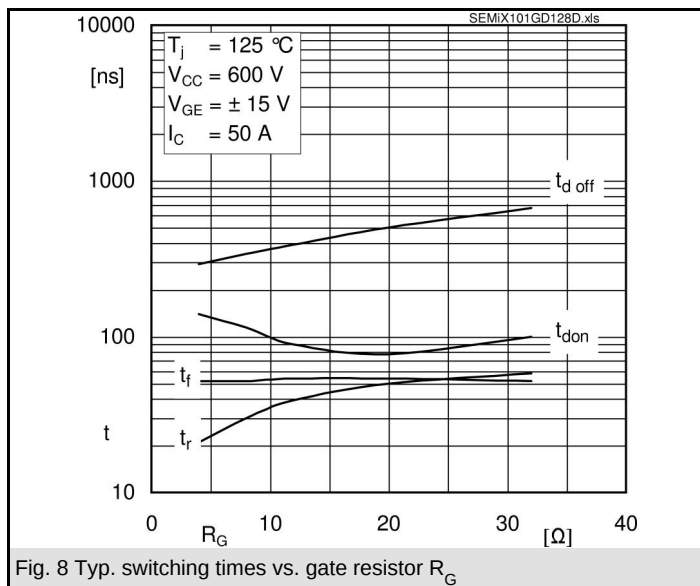
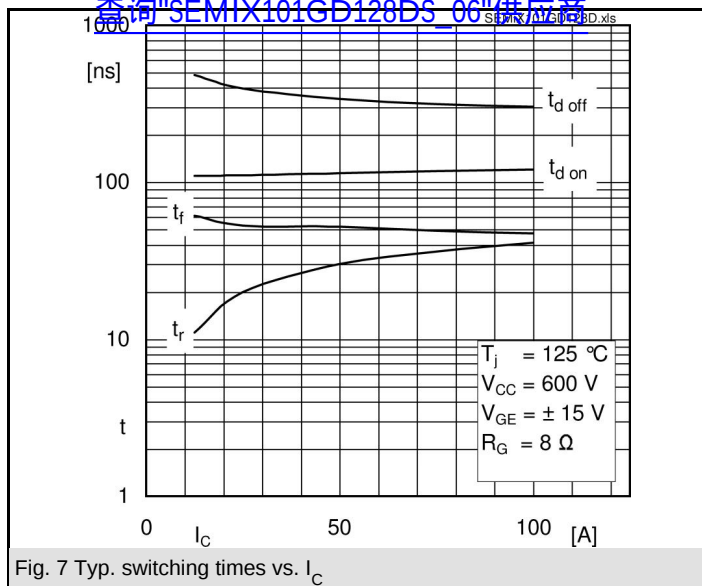
Absolute Maximum Ratings		T _{case} = 25°C, unless otherwise specified		
Symbol	Conditions	Values		Units
IGBT				
V _{CES}	T _j = 25 °C	1200		V
I _C	T _j = 150 °C	T _{case} = 25 °C	100	A
		T _{case} = 80 °C	70	A
I _{CRM}	I _{CRM} =2xI _{Cnom}	100		A
V _{GES}		±20		V
t _{psc}	V _{CC} = 600 V; V _{GE} ≤ 20 V; T _j = 125 °C V _{CES} < 1200 V	10		µs
Inverse Diode				
I _F	T _j = 150 °C	T _{case} = 25 °C	85	A
		T _{case} = 80 °C	60	A
I _{FRM}	I _{FRM} =2xI _{Fnom}	100		A
I _{FSM}	t _p = 10 ms; sin. T _j = 25 °C	550		A
Module				
I _{t(RMS)}		600		A
T _{vj}		-40 ... + 150		°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 = 2 mA	4,5	5	6,5	V
I _{CES}	V _{GE} = 0 V, V _{CE} = V _{CES} T _j = 25 °C			0,3	mA
V _{CE0}	T _j = 25 °C T _j = 125 °C		1	1,15	V
			0,9	1,05	V
r _{CE}	V _{GE} = 15 V T _j = 25°C T _j = 125°C		18	24	mΩ
			24	30	mΩ
V _{CE(sat)}	I _{Cnom} = 50 A, V _{GE} = 15 V T _j = 25°C _{chiplev.} T _j = 125°C _{chiplev.}		1,9	2,35	V
			2,1	2,55	V
C _{ies}	V _{CE} = 25, V _{GE} = 0 V f = 1 MHz		4,5		nF
C _{oes}			0,33		nF
C _{res}			0,21		nF
Q _G	V _{GE} = -8 V ... +15 V		480		nC
t _{d(on)}	R _{Gon} = 8 Ω	V _{CC} = 600V I _{Cnom} = 50A T _j = 125 °C	115		ns
t _r			30		ns
E _{on}	5,2			mJ	
t _{d(off)}	R _{Goff} = 8 Ω		340		ns
t _f			55		ns
E _{off}			5,5		mJ
R _{th(j-c)}	per IGBT			0,28	K/W

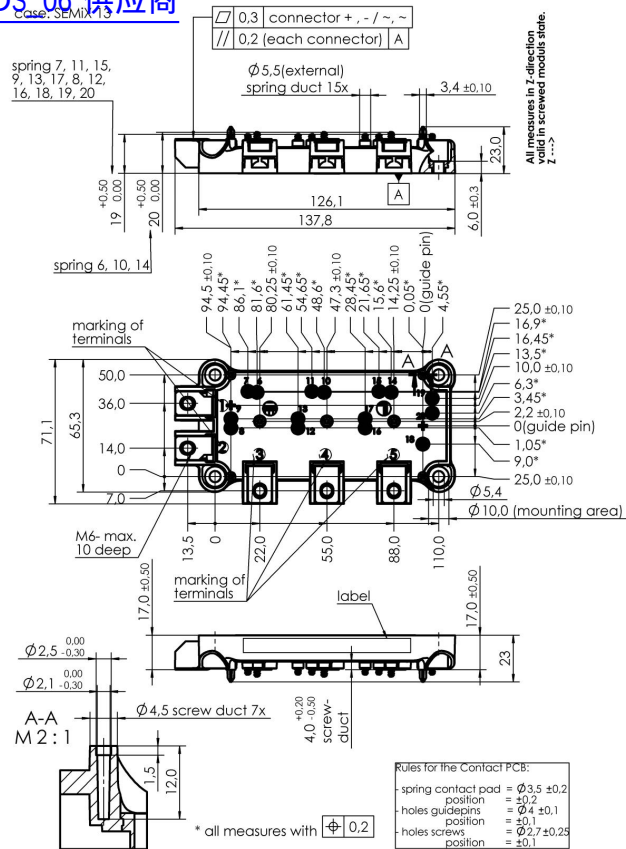
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Case SEMiX 13s

