

SEMiX 252GB176HDs



Trench IGBT Modules

SEMiX 252GB176HDs

Preliminary Data

Features

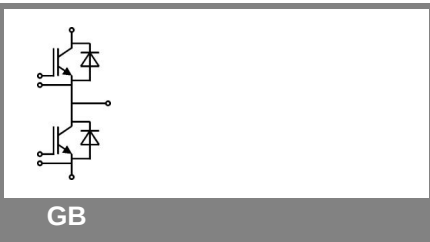
- Homogeneous Si
- Trench = Trenchgate technology
- $V_{CE(sat)}$ with positive temperature coefficient
- High short circuit capability

Typical Applications

- AC inverter drives
- UPS
- Electronic welders

Remarks

- short circuit capability is tested @ $V_{CC}=1000V$ (all other static parameters are tested @ $V_{CC}=1200V$)



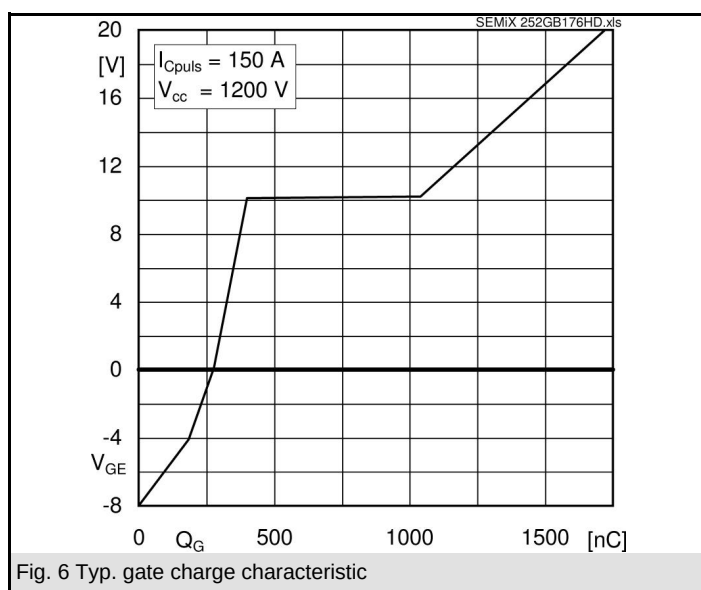
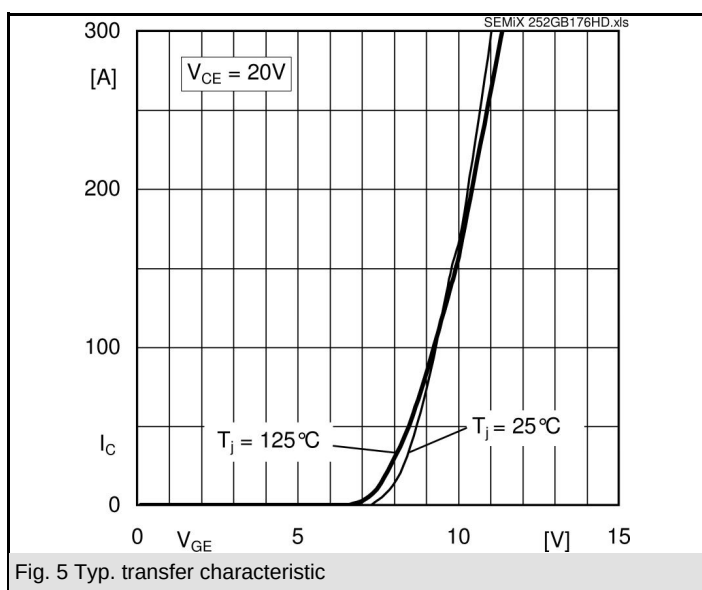
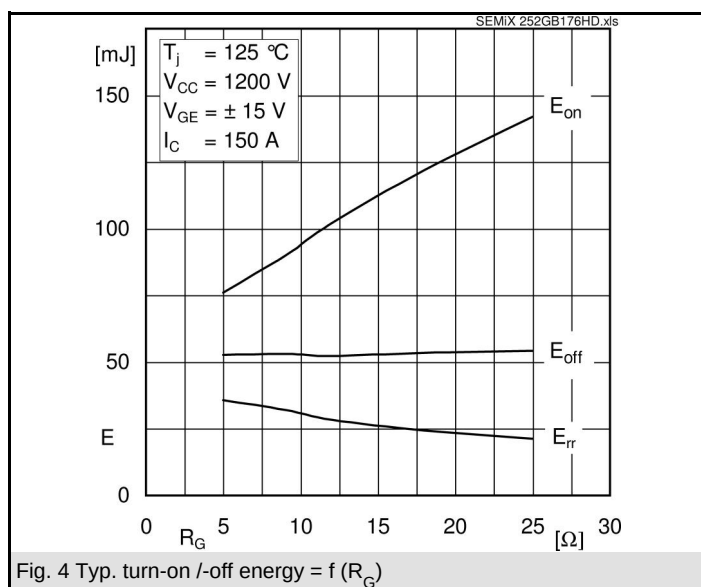
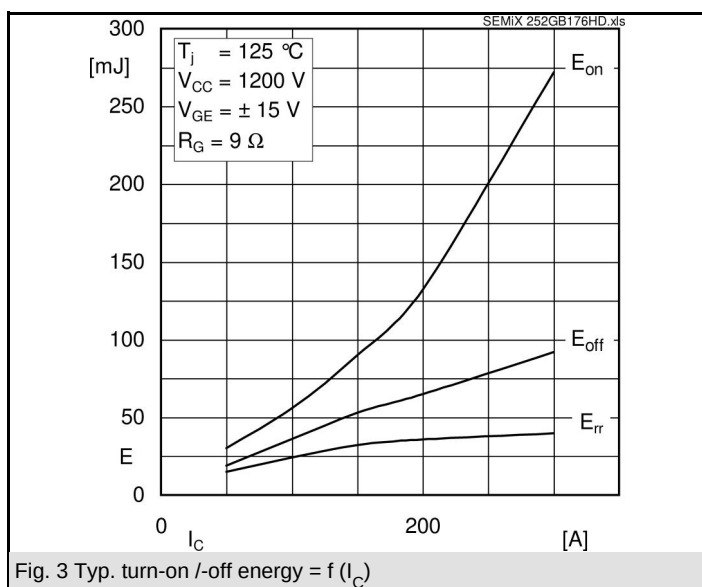
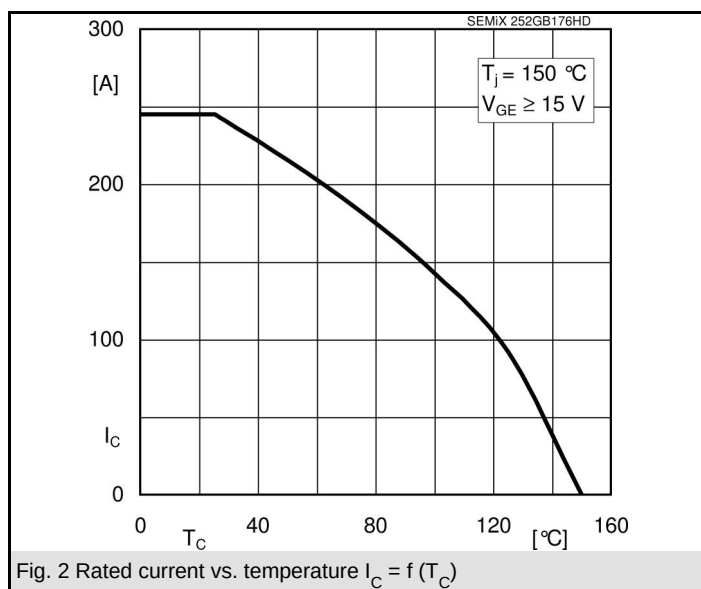
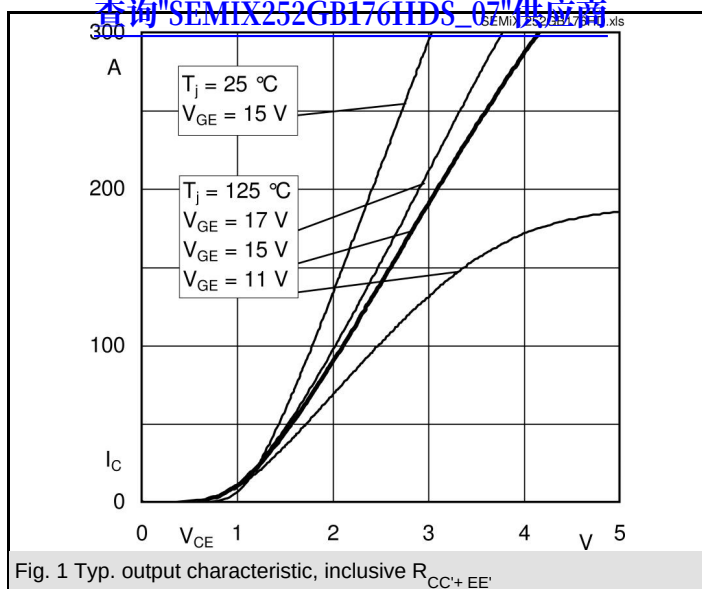
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Characteristics					
Symbol	Conditions		min.	typ.	max. Units
Inverse Diode					
$V_F = V_{EC}$	$I_{Fnom} = 150\text{ A}$; $V_{GE} = 0\text{ V}$	$T_j = 25\text{ }^{\circ}\text{C}_{chiplev.}$		1,55	1,75 V
		$T_j = 125\text{ }^{\circ}\text{C}_{chiplev.}$		1,5	1,7 V
V_{F0}		$T_j = 25\text{ }^{\circ}\text{C}$		1,1	1,3 V
		$T_j = 125\text{ }^{\circ}\text{C}$		0,9	1,1 V
r_F		$T_j = 25\text{ }^{\circ}\text{C}$		3	mΩ
		$T_j = 125\text{ }^{\circ}\text{C}$		4	mΩ
I_{RRM}	$I_{Fnom} = 150\text{ A}$	$T_j = 125\text{ }^{\circ}\text{C}$		205	A
Q_{rr}	$di/dt = 3300\text{ A}/\mu\text{s}$			55	μC
E_{rr}	$V_{GE} = -15\text{ V}$; $V_{CC} = 1200\text{ V}$			32	mJ
$R_{th(j-c)D}$	per diode			0,19	K/W
Module					
L_{CE}				18	nH
$R_{CC'+EE'}$	res., terminal-chip	$T_{case} = 25\text{ }^{\circ}\text{C}$		0,7	mΩ
		$T_{case} = 125\text{ }^{\circ}\text{C}$		1	mΩ
$R_{th(c-s)}$	per module			0,045	K/W
M_s	to heat sink M5		3		5 Nm
M_t	to terminals M6		2,5		5 Nm
w				250	g
Temperature sensor					
R_{100}	$T_c=100^{\circ}\text{C}$ ($R_{25}=5\text{ k}\Omega$)			0,493±5%	kΩ
$B_{100/125}$	$R(T)=R_{100}\exp[B_{100/125}(1/T-1/T_{100})]$; $T[K]$; B			3550±2%	K

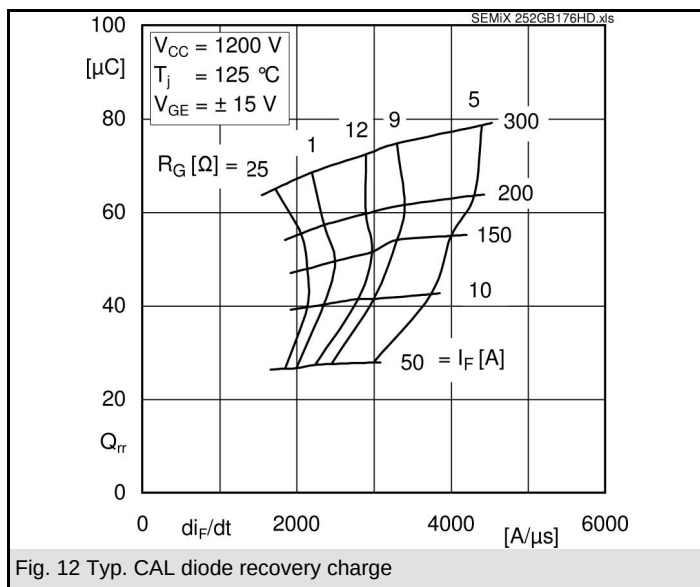
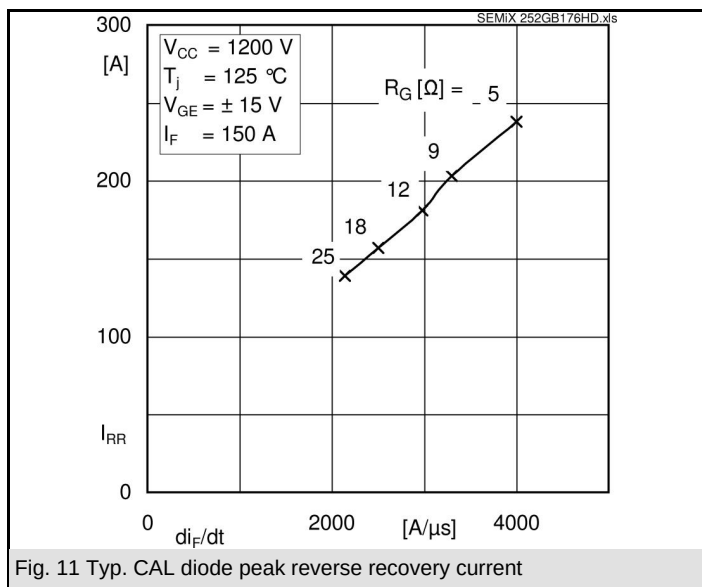
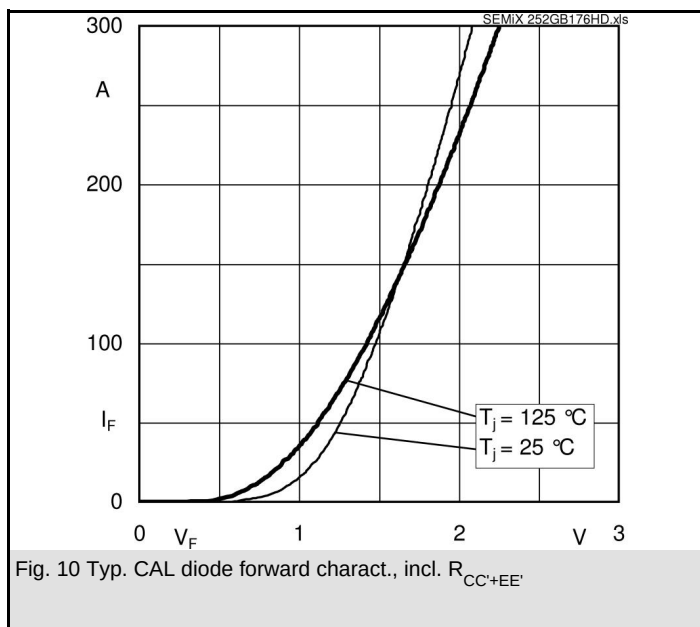
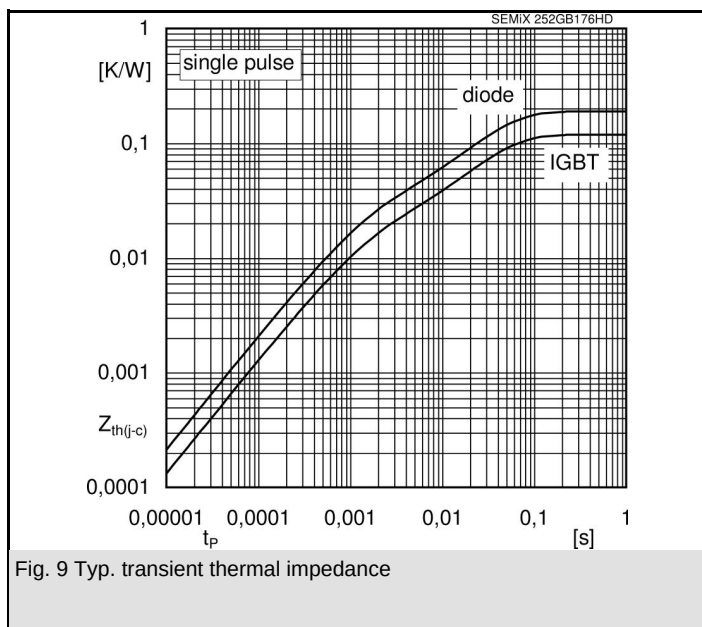
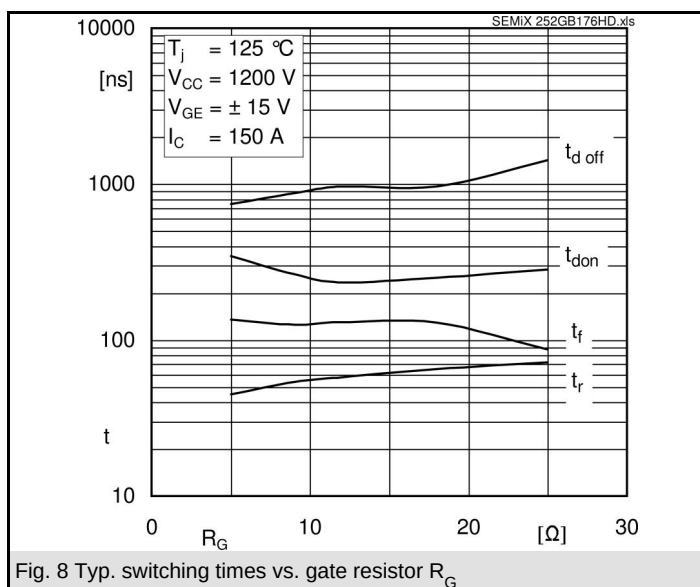
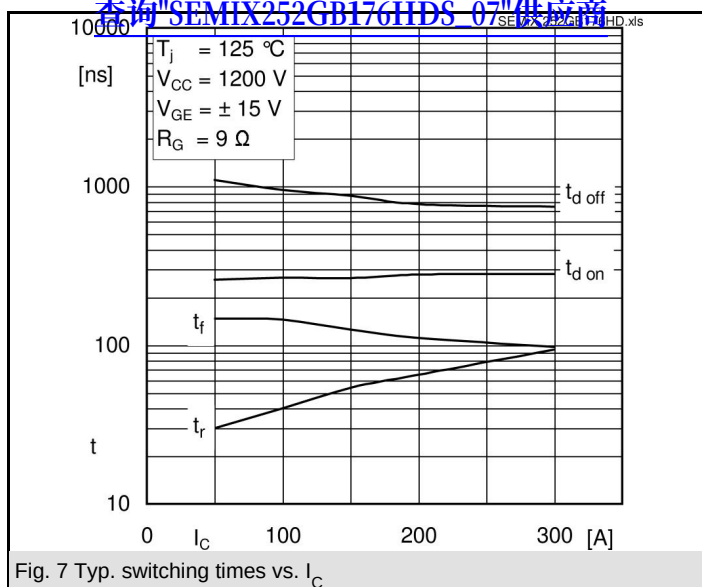
This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

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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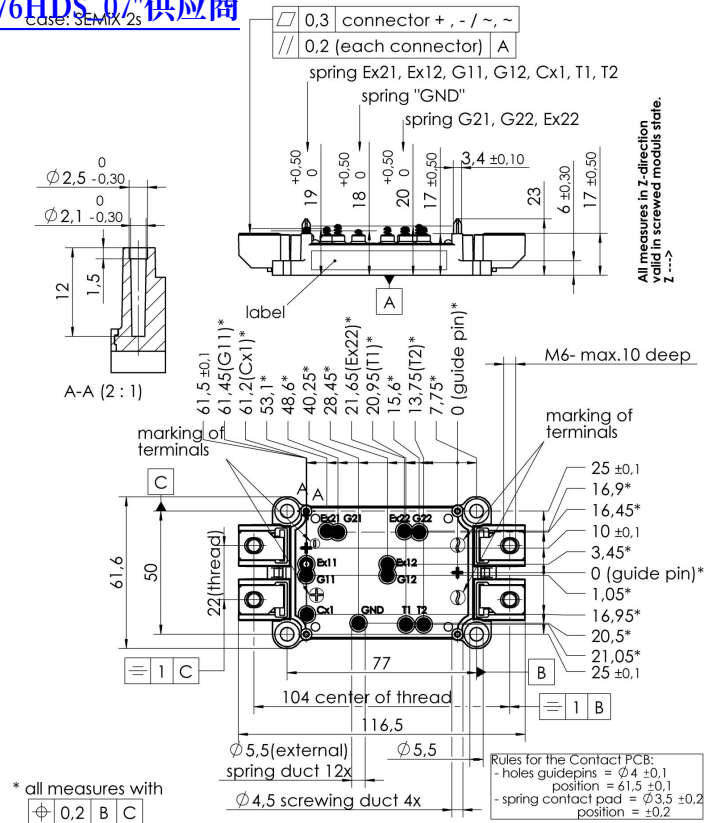


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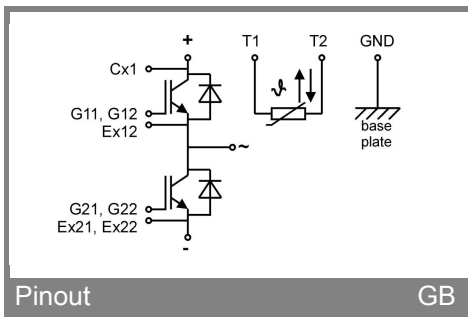


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Case: SEMiX 2s



Case SEMiX 2s



Pinout

GB