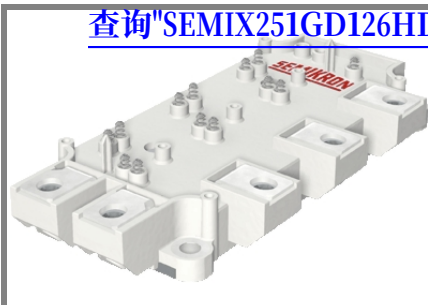


SEMiX 251GD126HDs

SEMIX[®] 13s

Trench IGBT Modules

SEMIX 251GD126HDs

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 Welding

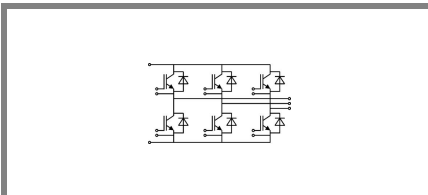
Remarks

- Case temperatur limited to $T_C=125^{\circ}\text{C}$ max.

Characteristics					
Symbol	Conditions	min.	typ.	max.	Units
Inverse Diode					
$V_F = V_{EC}$	$I_{Fnom} = 150\text{ A}; V_{GE} = 0\text{ V}$	$T_j = 25\text{ °C}_{chiplev.}$	1,6	1,8	V
		$T_j = 125\text{ °C}_{chiplev.}$	1,6	1,8	V
V_{F0}		$T_j = 25\text{ °C}$	1	1,1	V
		$T_j = 125\text{ °C}$	0,8	0,9	V
r_F		$T_j = 25\text{ °C}$	4	4,7	mΩ
		$T_j = 125\text{ °C}$	5,3	6	mΩ
I_{RRM}	$I_{Fnom} = 150\text{ A}$	$T_j = 125\text{ °C}$	190		A
Q_{rr}	$di/dt = 3950\text{ A}/\mu\text{s}$		35		μC
E_{rr}	$V_{GE} = -15\text{ V}; V_{CC} = 600\text{ V}$		14,5		mJ
$R_{th(j-c)D}$	per diode			0,28	K/W
Module					
L_{CE}			20		nH
$R_{CC'+EE'}$	res., terminal-chip	$T_{case} = 25\text{ °C}$	0,7		mΩ
		$T_{case} = 125\text{ °C}$	1		mΩ
$R_{th(c-s)}$	per module		0,04		K/W
M_s	to heat sink (M5)		3	5	Nm
M_t	to terminals (M6)		2,5	5	Nm
w				350	g
Temperature sensor					
R_{100}	$T_c = 100\text{ °C } (R_{25} = 5\text{ k}\Omega)$		0,493±5%		kΩ
$B_{100/125}$	$R(T) = R_{100} \exp[B_{100/125}(1/T - 1/T_{100})]$; $T[\text{K}]$		3550±2%		K

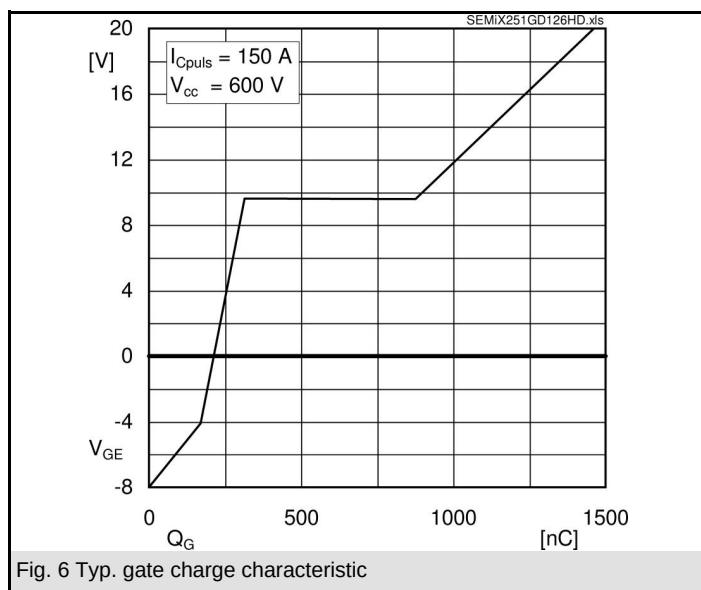
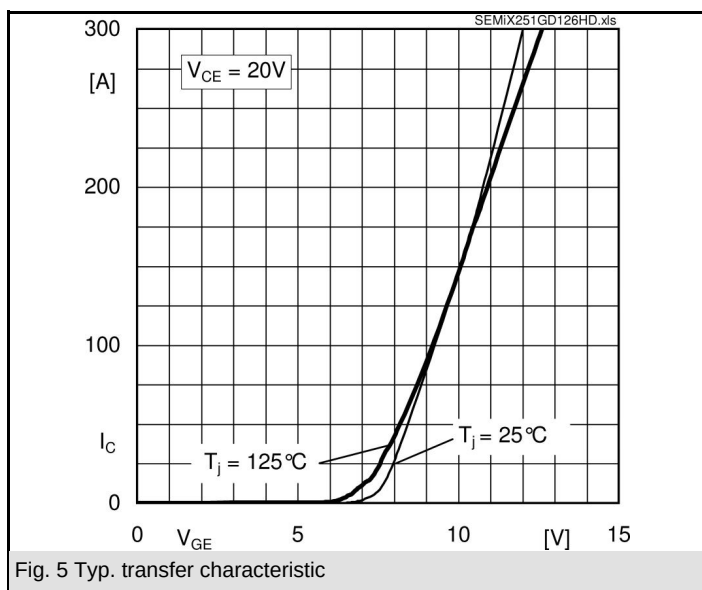
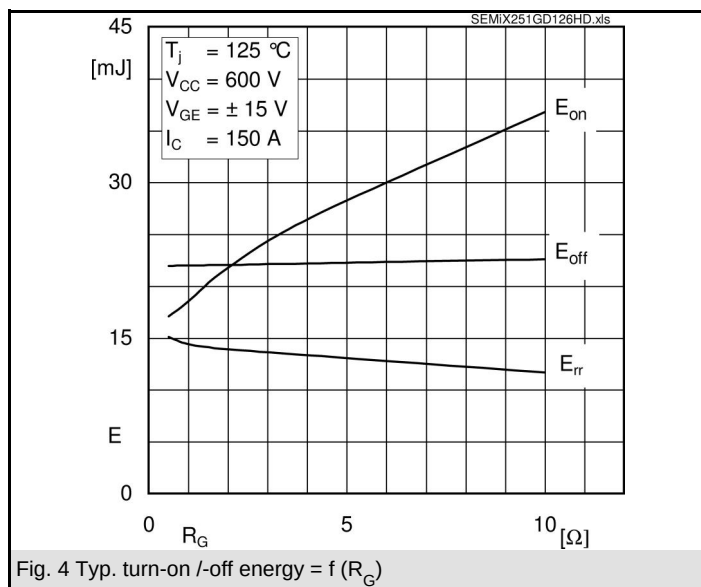
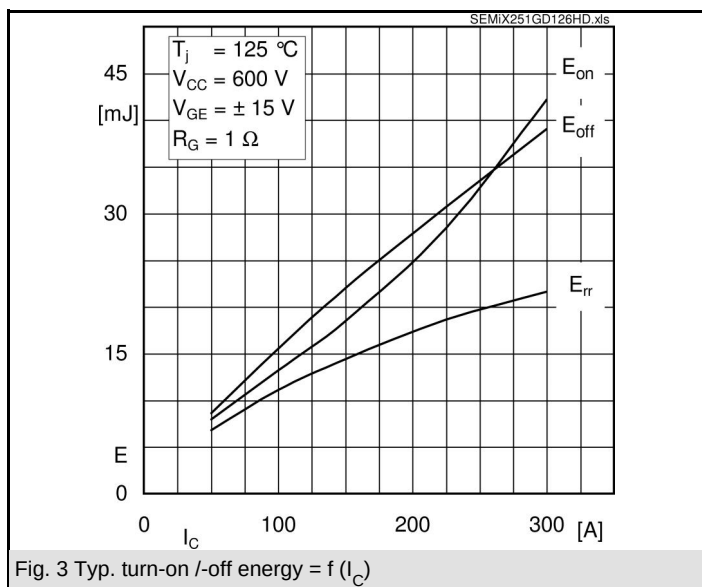
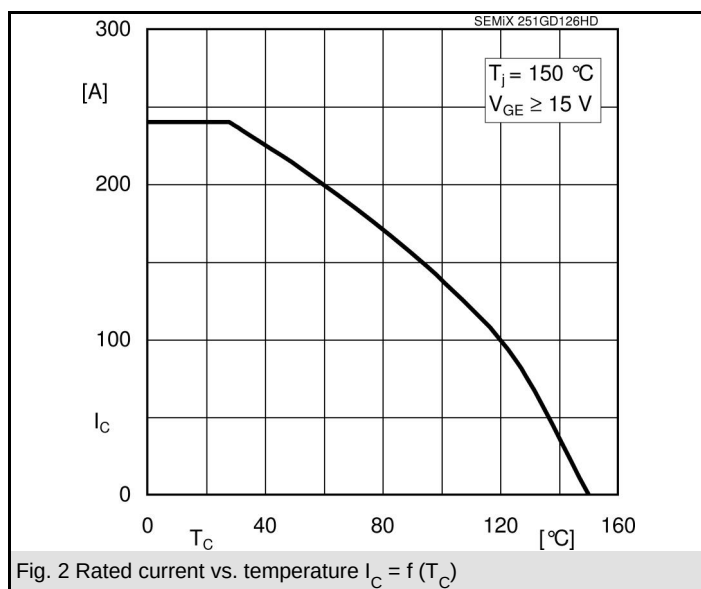
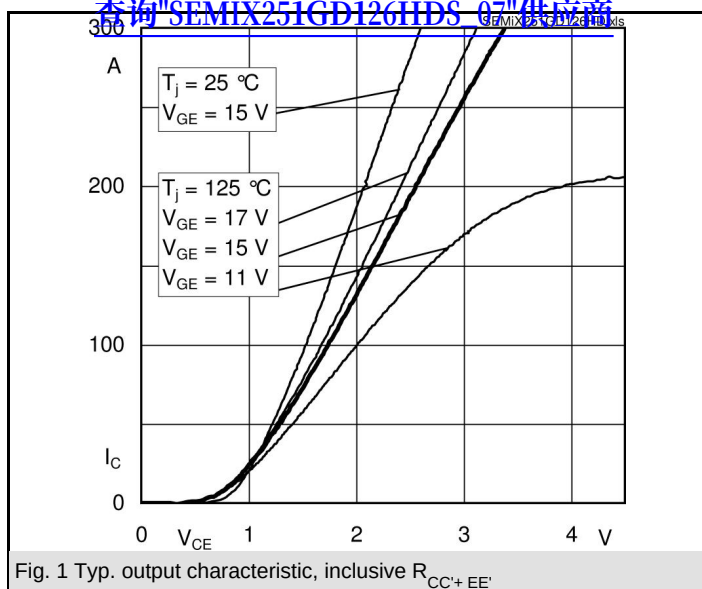
This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

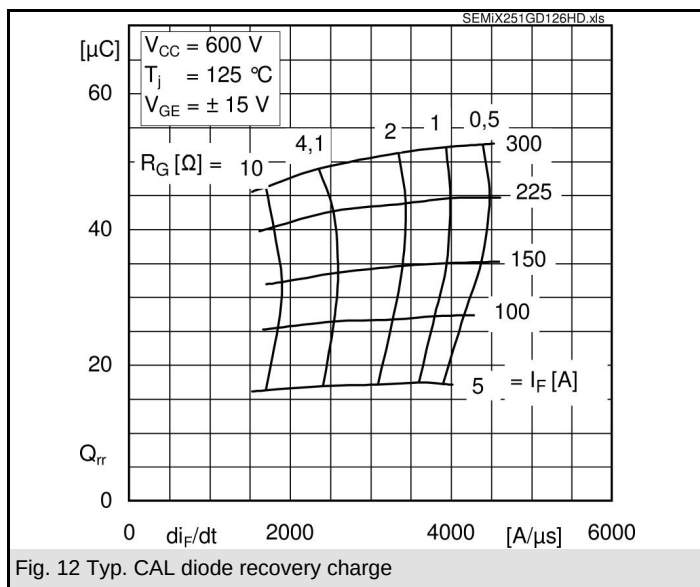
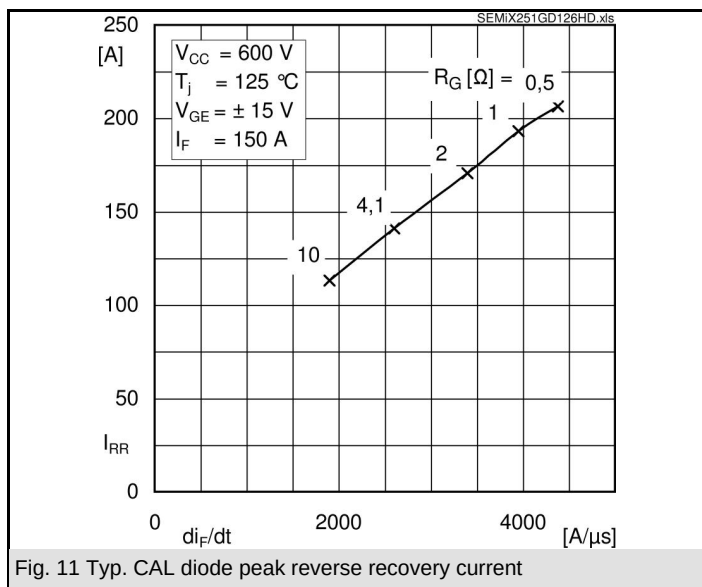
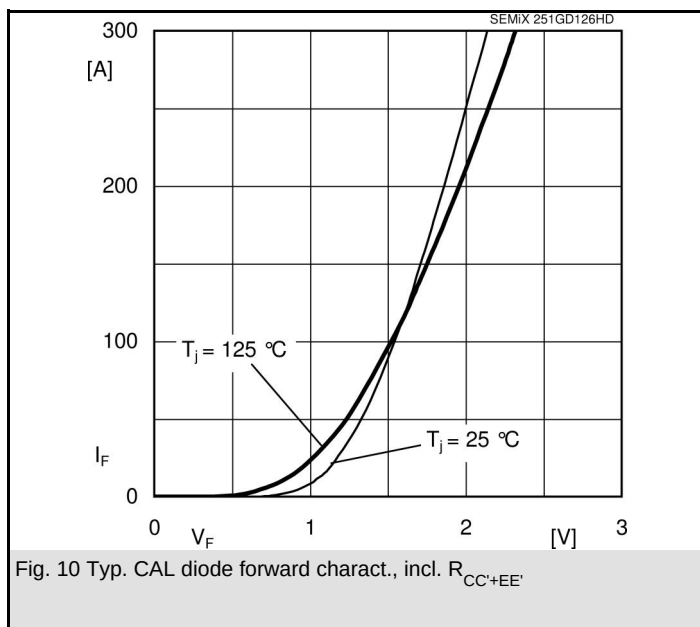
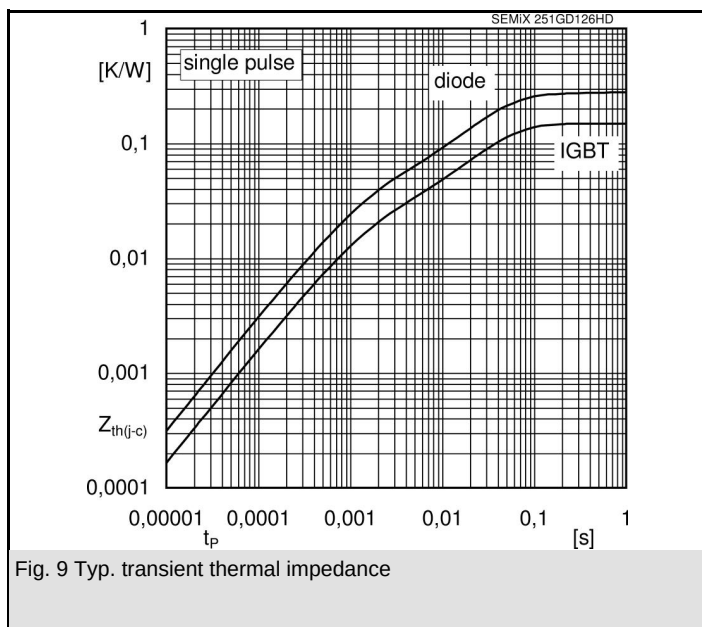
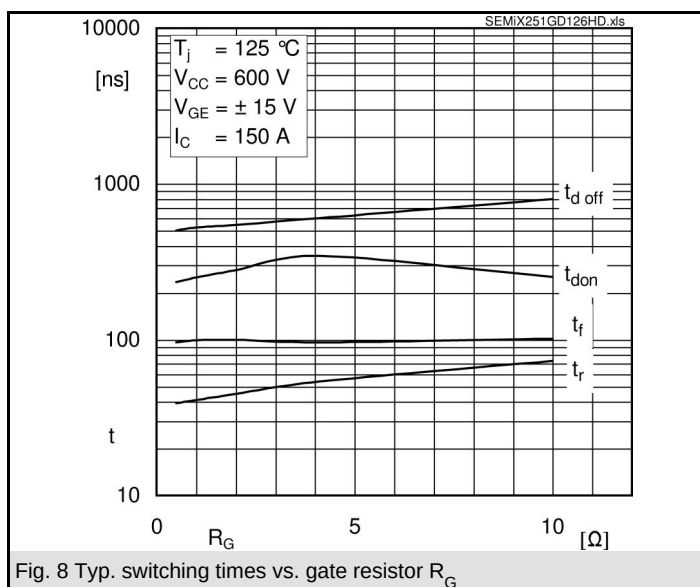
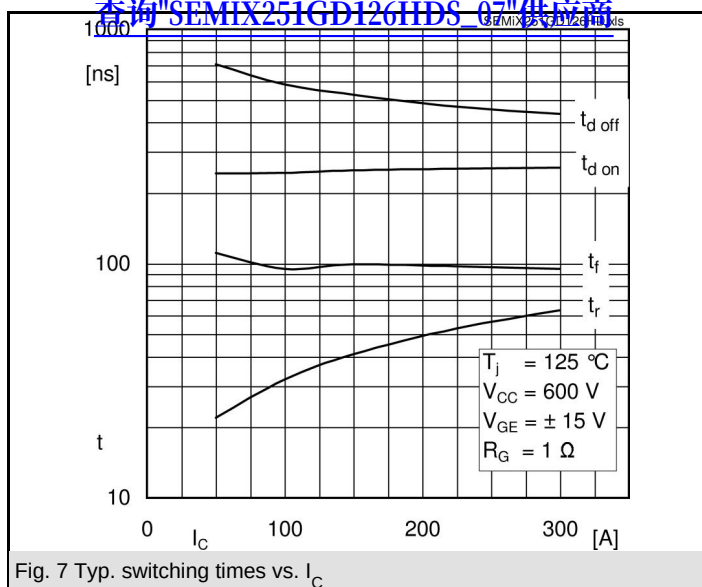


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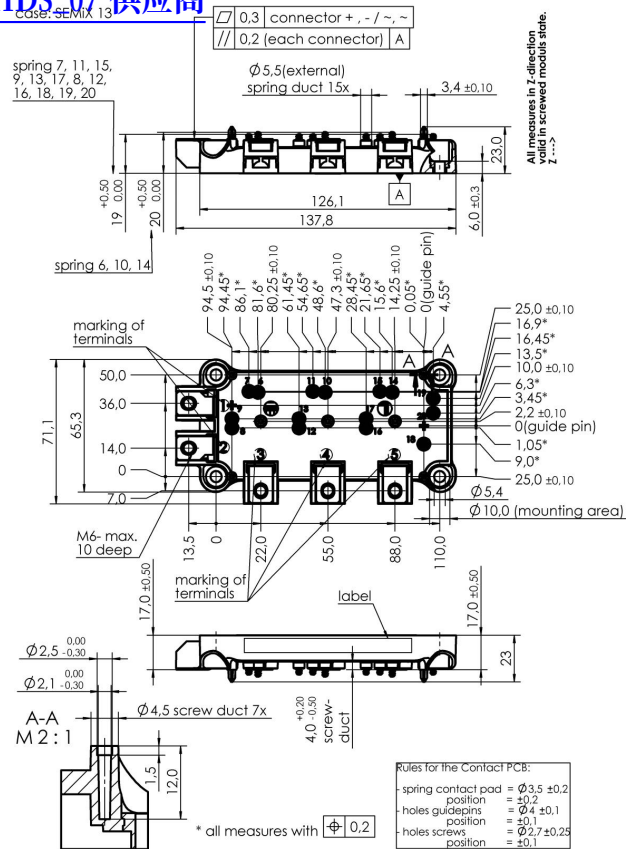
查询"SEMiX251GD126HDS-07"供应商



查询"SEMIX251GD126HDS_07"供应商



查询"SEMIX251GDI26HDS_07"供应商



Case SEMiX 13s

