

IGBT Die

NGTD28T65F2

ELECTRICAL CHARACTERISTICS ($T_J = 25^\circ\text{C}$, unless otherwise specified)

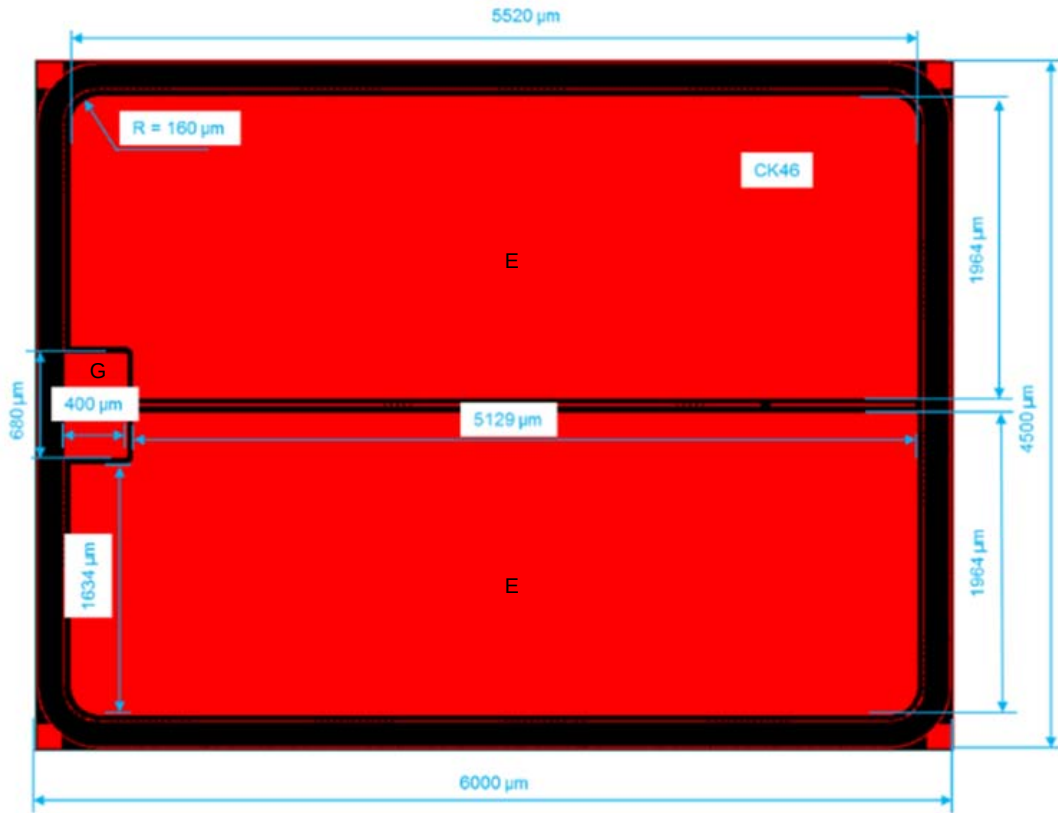
Parameter	Test Conditions	Symbol	Min	Typ	Max	Units
STATIC CHARACTERISTICS						
Collector-Emitter Breakdown Voltage	$V_{GE} = 0\text{ V}$, $I_C = 500\text{ }\mu\text{A}$	$V_{(BR)CES}$	650			V
Collector-Emitter Saturation Voltage	$V_{GE} = 15\text{ V}$, $I_C = 75\text{ A}$	$V_{CE(sat)}$		1.75	2.0	V
Gate-Emitter Threshold Voltage	$V_{GE} = V_{CE}$, $I_C = 350\text{ }\mu\text{A}$	$V_{GE(TH)}$	4.5	5.5	6.5	V
Collector-Emitter Cutoff Current	$V_{GE} = 0\text{ V}$, $V_{CE} = 650\text{ V}$	I_{CES}			0.1	mA
Gate Leakage Current	$V_{GE} = 20\text{ V}$, $V_{CE} = 0\text{ V}$	I_{GES}			200	nA

DYNAMIC CHARACTERISTICS

Input Capacitance	$V_{CE} = 20\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$	C_{ies}		7500		pF
Output Capacitance		C_{oes}		300		pF
Reverse Transfer Capacitance		C_{res}		190		pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

DIE LAYOUT



E = Emitter pad
G = Gate pad
All dimensions in μm

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Further Electrical Characteristic

Switching characteristics and thermal properties are depending strongly on module design and mounting technology and can therefore not be specified for a bare die.

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