

IGBT Die

NGTD13T65F2

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

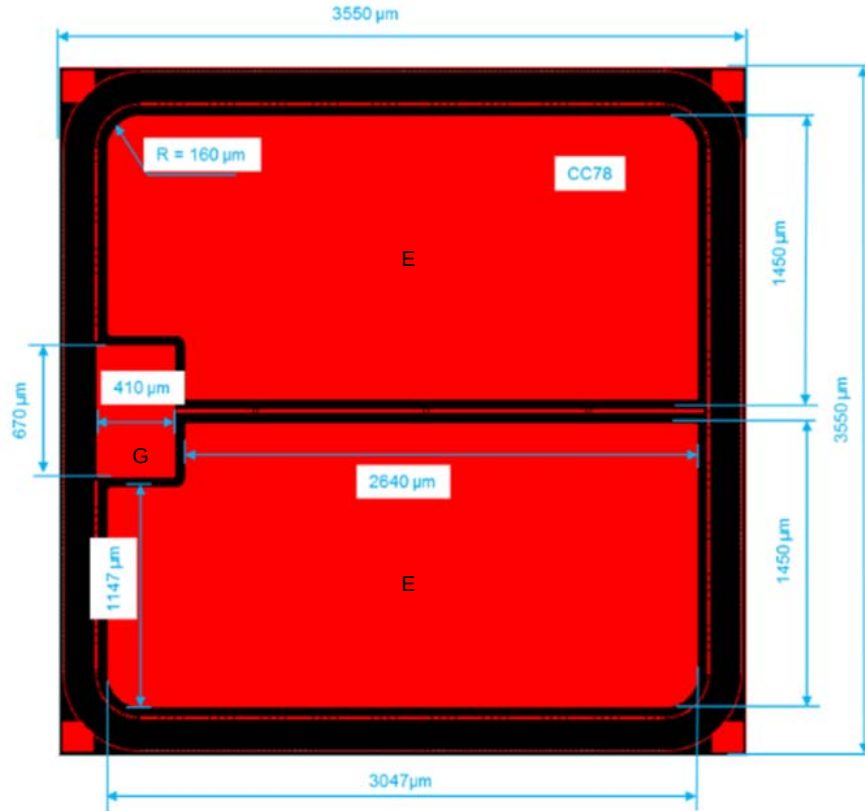
Parameter	Test Conditions	Symbol	Min	Typ	Max	Units
STATIC CHARACTERISTICS						
Collector-Emitter Breakdown Voltage	$V_{GE} = 0\text{ V}$, $I_C = 500\text{ }\mu\text{A}$	$V_{(BR)CES}$	650			V
Collector-Emitter Saturation Voltage	$V_{GE} = 15\text{ V}$, $I_C = 30\text{ A}$	$V_{CE(sat)}$		1.6	2.2	V
Gate-Emitter 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}			0.2	mA
Gate Leakage Current	$V_{GE} = 20\text{ V}$, $V_{CE} = 0\text{ V}$	I_{GES}			100	nA

DYNAMIC CHARACTERISTICS

Input Capacitance	$V_{CE} = 20\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$	C_{ies}		3200		pF
Output Capacitance		C_{oes}		130		pF
Reverse Transfer Capacitance		C_{res}		85		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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