

Electrical Characteristics of the IGBT

 $T_J = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Units
Off Characteristics						
BV_{CES}	Collector-Emitter Breakdown Voltage	$V_{GS} = 0\text{V}, I_C = 200\mu\text{A}$	600	—	—	V
$\Delta T_{JA}/\Delta T_{JC}$	Temperature Coefficient of Breakdown Voltage	$V_{GS} = 0\text{V}, I_C = 1\text{mA}$	—	0.6	—	$1/^\circ\text{C}$
I_{CBO}	Collector Cut-Off Current	$V_{GS} = V_{CES}, V_{CE} = 0\text{V}$	—	—	250	μA
I_{CEO}	C-E Leakage Current	$V_{GS} = V_{CES}, V_{CE} = 0\text{V}$	—	—	± 100	nA

On Characteristics

$V_{GS(th)}$	G-E Threshold Voltage	$I_C = 40\text{mA}, V_{DS} = V_{GS}$	3.5	4.5	6.5	V
$V_{DS(sat)}$	Collector to Emitter Saturation Voltage	$I_C = 40\text{A}, V_{GS} = 15\text{V}$	—	2.1	2.6	V
		$I_C = 80\text{A}, V_{GS} = 15\text{V}$	—	2.6	—	V

Dynamic Characteristics

$t_{d(on)}$	Turn-On Delay Time	$V_{DS} = 300\text{V}, V_{GS} = 15\text{V}$	—	270	—	ns
$t_{d(off)}$	Turn-Off Delay Time	$V_{DS} = 300\text{V}, V_{GS} = 15\text{V}$	—	280	—	ns
t_{sw}	Switching Time	$V_{DS} = 300\text{V}, V_{GS} = 15\text{V}$	—	180	—	ns

Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	$V_{DS} = 300\text{V}, I_C = 40\text{A},$ $R_{\theta JA} = 50, V_{GS} = 15\text{V},$ Inductive Load, $T_J = 25^\circ\text{C}$	—	30	—	ns
t_r	Rise Time		—	50	—	ns
$t_{d(off)}$	Turn-Off Delay Time		—	50	150	ns
t_f	Fall Time		—	50	150	ns
E_{on}	Turn-On Switching Loss		—	0.70	—	μJ
E_{off}	Turn-Off Switching Loss	$V_{DS} = 300\text{V}, I_C = 40\text{A},$ $R_{\theta JA} = 50, V_{GS} = 15\text{V},$ Inductive Load, $T_J = 25^\circ\text{C}$	—	0.90	—	μJ
E_{sw}	Total Switching Loss		—	1.100	1000	μJ
$t_{d(on)}$	Turn-On Delay Time		—	30	—	ns
t_r	Rise Time		—	50	—	ns
$t_{d(off)}$	Turn-Off Delay Time		—	150	200	ns
t_f	Fall Time	$V_{DS} = 300\text{V}, I_C = 40\text{A},$ $R_{\theta JA} = 50, V_{GS} = 15\text{V},$ Inductive Load, $T_J = 125^\circ\text{C}$	—	150	250	ns
E_{on}	Turn-On Switching Loss		—	0.50	—	μJ
E_{off}	Turn-Off Switching Loss		—	0.40	—	μJ
E_{sw}	Total Switching Loss		—	1000	2000	μJ
Q_g	Total Gate Charge		—	170	200	nC
Q_{ge}	Gate-Emitter Charge	$V_{DS} = 300\text{V}, I_C = 40\text{A},$ $V_{GS} = 15\text{V}$	—	20	40	nC
Q_{gc}	Gate-Collector Charge		—	90	90	nC
t_{ce}	Internal Emitter Inductance	Measured 5mm 50% PKD	—	1.4	—	nH

Electrical Characteristics of DIODE

 $T_J = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Units
V_{FD}	Diode Forward Voltage	$I_F = 25\text{A}$	$T_J = 25^\circ\text{C}$	—	1.4	1.7	V
			$T_J = 150^\circ\text{C}$	—	1.3	—	
t_{rr}	Diode Reverse Recovery Time	$I_F = 25\text{A},$ $dI/dt = 20\text{A}/\mu\text{s}$	$T_J = 25^\circ\text{C}$	—	80	90	ns
			$T_J = 100^\circ\text{C}$	—	100	—	
I_{rr}	Diode Peak Reverse Recovery Current		$T_J = 25^\circ\text{C}$	—	4.5	10	A
			$T_J = 100^\circ\text{C}$	—	8.0	—	
Q_{rr}	Diode Reverse Recovery Charge		$T_J = 25^\circ\text{C}$	—	110	205	nC
			$T_J = 100^\circ\text{C}$	—	400	—	

G80n60ufd Service Manual

Mark Steyvers



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