

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	—	$^{\circ}\text{C}^{-1}$
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_{r}	Rise Time	$I_C = 40\text{A}$, $V_{GS} = 15\text{V}$	—	280	—	ns
$t_{d(off)}$	Turn-Off Delay Time	$I_C = 40\text{A}$, $V_{GS} = 15\text{V}$	—	180	—	ns

Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	$V_{DS} = 300\text{V}$, $I_C = 40\text{A}$, $R_{\theta JA} = 50^{\circ}\text{C/W}$, $V_{GS} = 15\text{V}$, 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	$V_{DS} = 300\text{V}$, $I_C = 40\text{A}$, $R_{\theta JA} = 50^{\circ}\text{C/W}$, $V_{GS} = 15\text{V}$, 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	$V_{DS} = 300\text{V}$, $I_C = 40\text{A}$, $R_{\theta JA} = 50^{\circ}\text{C/W}$, $V_{GS} = 15\text{V}$, Inductive Load, $T_J = 125^{\circ}\text{C}$	—	160	230	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	—	

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web cooled heat exchanger provides a means of transferring the heat from the fluid or gas into ambient air without environmental concerns or without great ongoing cost such as water supply and treatment a fin fan is a type of heat exchanger that forces air over a set of coils to cool the process

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web a fin fan is a type of heat exchanger that forces air over a set of coils to cool the process it is also referred to as an air cooled heat exchanger fin fan heat exchangers are generally used where a process system generates heat which must be removed but for which there is no local use in fin fan heat exchanger air is forced in cross flow

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web fan the most common industrial cooling fan failure modes typically involve gearboxes or fan blades and are catastrophic in nature in many cases this type of failure leaves the gearbox and or fan blades lying in the cooling water pond at the bottom of the tower or above a heat exchanger 1

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web air cooled heat exchangers in short air fin or fin fan coolers are used in any application where large quantities of heat need to be transferred this includes chemical and petrochemical industries power stations geothermal

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web the air cooled heat exchangers are also known as fin fan coolers fin fan cooler is nothing but traditional name of air cooled heat exchanger since fins are used in the cooler it is called as fin fan cooler please refer

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web the main function of the air cooled heat exchanger is the direct cooling of various process mediums by atmospheric air these heat exchangers are also known as air fin fan coolers or air fin coolers or air coolers or fin tube heat exchangers

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web frame size 36 36 36mm 03 38 38mm 04 40 40mm 05 52 52mm 06 60 60mm 08 80 80mm 09 92 92mm 12 120 120mm 13 127 127mm 14 140 140mm 15 150 150mm 17 \varnothing 172mm 47 \varnothing 172mm 147mm sidecut 57 \varnothing 172mm 150mm sidecut 20 \varnothing 200mm voltage 05 5v 12 12v 24 24v 48 48v etc speed code

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web cleaning your air cooled heat exchanger with jpx f is better for the equipment and personnel the gentle yet effective foaming action clears away dirt and debris effectively without damaging equipment your fin fans and heat exchangers will run at optimum levels and return to their peak performance once again

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web iogp s 710d data sheet for air cooled heat exchangers the data sheet defines application specific requirements attributes and options specified by the purchaser for the supply of equipment to the technical specification

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web dec 22 2017 fin fan cooler is nothing but traditional name of air cooled heat exchanger since fins are used in the cooler it is called as fin fan cooler please refer air cooled heat exchanger for all the details in the fin fan coolers the ambient air used as the cooling media to cool the main hot fluid which used in tube side

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web sep 9 2018 issue 2 many time we see the performance of the fin fan cooler is not as ok and unable to maintain the proper cooling it is because of the many reason e g fouling of the tubes inside of the

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web life of the cooler this is the preferred tube for operating temperatures up to 600 f the embedded fin also affords a continued predictable heat transfer and should be used for all coolers operating above 600 f and below 750 f the wrap on footed fin tube can be used below 250 f however the bond between the fin

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web introduction fin fan cooler is a kind of heat exchanger that uses the air for cooling medium it is required a wide surface area for heat transfer it is applied to finned tube for increasing the heat transfer surface and compact design of construction area and the process fluid can be cooled by the natural air it is not required a coolant

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web our large fan field erected units are available in bay sizes up to 70 feet by 54 feet and fan diameters up to 36 feet our modular design and construction expertise allows for fast and dependable field erection benefits of the large fan design include air cooled heat exchanger air heat exchanger heat exchanger

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web the air cooler bank essentially consists of finned tube bundles fan rings axial fans with suitable drive units and a

supporting structure it can be equipped individually with maintenance platforms louvers and other equipment as requested by the customer

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web disposal to get more out of what you have without the need for brand new air coolers this fan is located below the process bundle and air is forced through the fin tubes induced draft fan is located above the process bundle and air is induced or pulled with the data sheet paper and pen in hand head out and do a detailed visual