



Symbol	Parameter	Value	Units
V_{CES}	Collector-Emitter Voltage	700	V
V_{GES}	Gate- Emitter Voltage	30	V
I_C	Collector Current	80	A
	Collector Current @ $T_C = 100\text{ }^\circ\text{C}$	40	
I_{Cpuls}	Pulsed Collector Current t_p limited by T_{Jmax}	160	
-	Turn off safe operating area $V_{CE}=650V$ $T_J=175^\circ\text{C}$	160	
I_F	Diode Continuous Forward Current @ $T_C = 25\text{ }^\circ\text{C}$	80	A
	Diode Continuous Forward Current @ $T_C = 100\text{ }^\circ\text{C}$	40	
I_{FM}	Diode Maximum Forward Current	160	
P_D	Power Dissipation @ $T_C = 25^\circ\text{C}$	394	W
T_J T_{STG}			



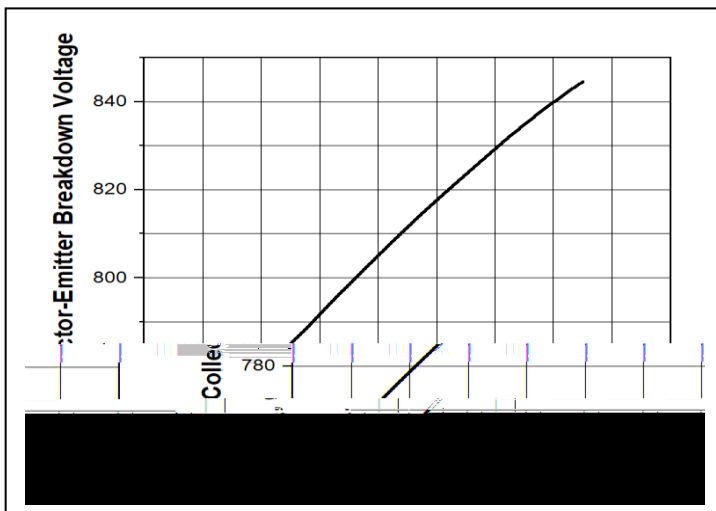
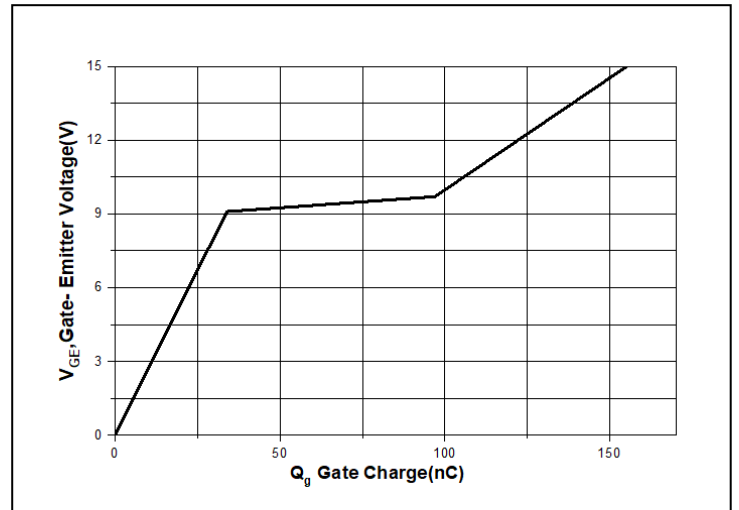
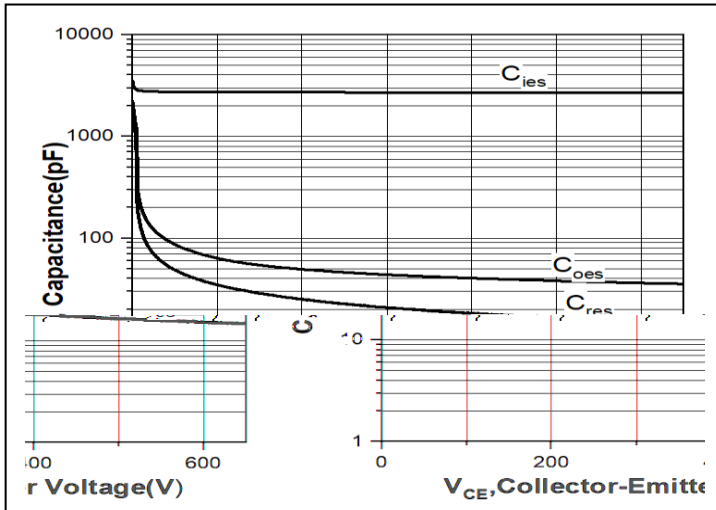
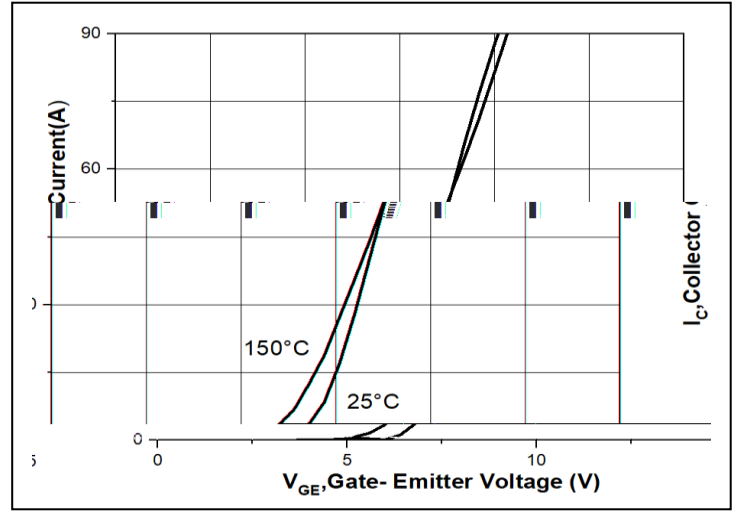
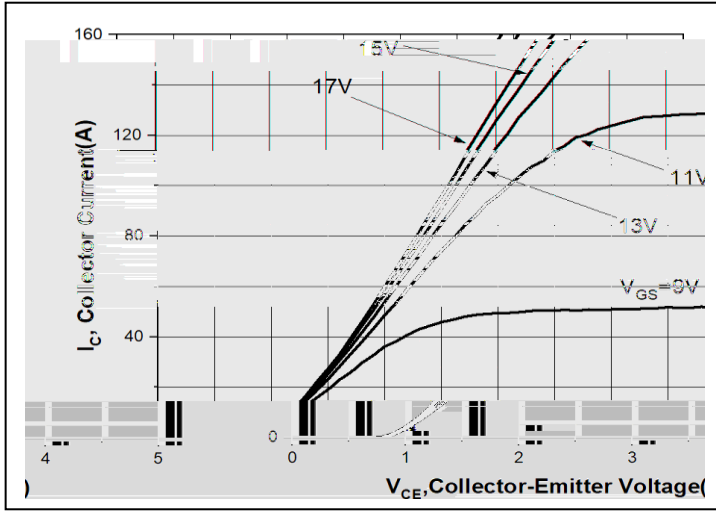
Symbol	Characterizes	Typ.	Max.	Units
	Thermal Resistance,Junction-to-case for IGBT			°C
	Thermal Resistance,Junction-to-case for Diode			°C
	Thermal Resistance,Junction-to-ambient			°C

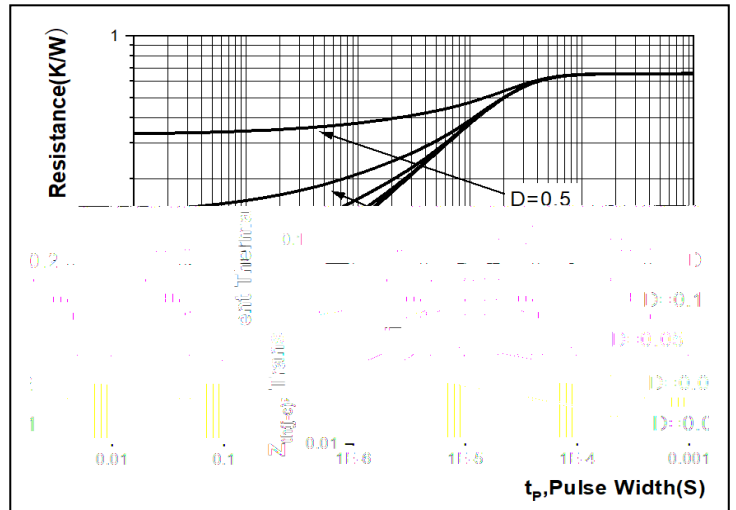
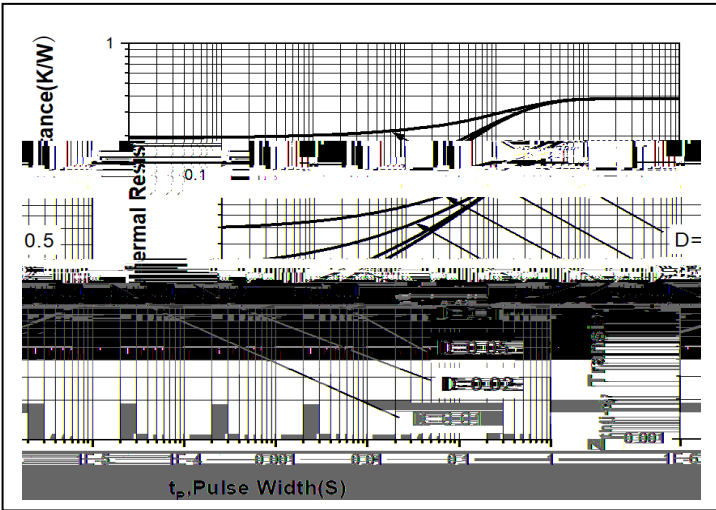
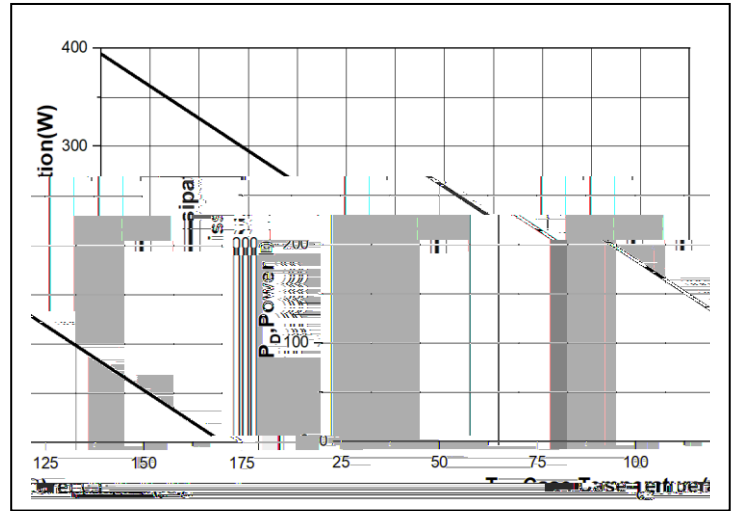
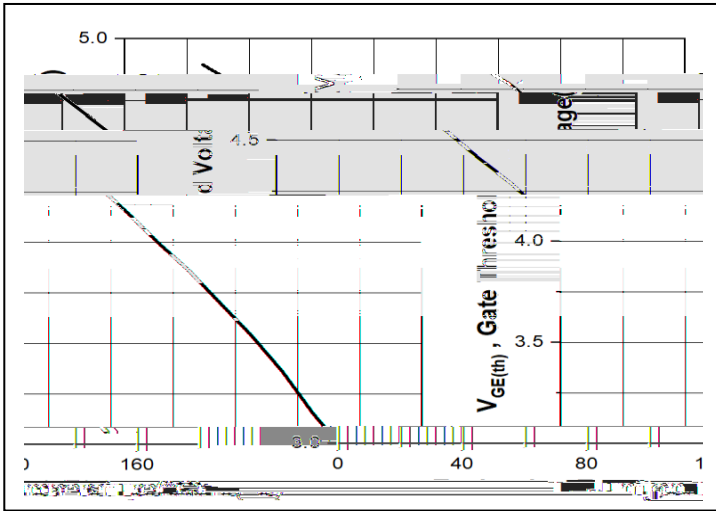
°C

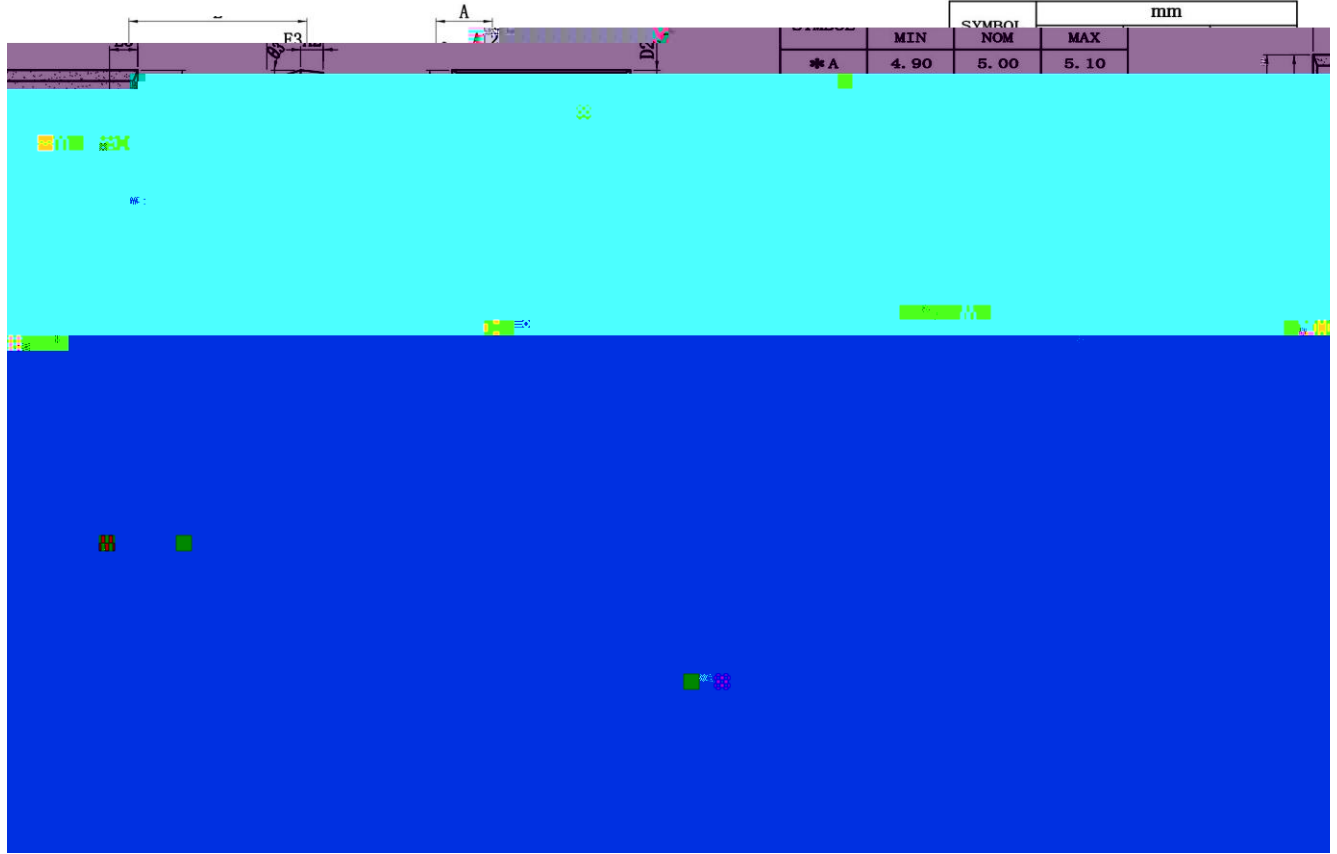
Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$V_{(BR)CES}$	Collector-Emitter Breakdown Voltage	700			V	$V_{GE}=0V, I_{CE}=1mA$
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		1.6	1.85	V	$I_C=40A, V_{GE}=15V$ @ $T_J 25^\circ C$
$V_{GE(th)}$	Gate Threshold Voltage	4		6	V	$I_C=250 A, V_{CE}=V_{GE}$
I_{CES}	Collector-Emitter Leakage Current			1	A	$V_{GE}=0V, V_{CE}=700V$
I_{GES}	Gate to Emitter Reverse Leakage			100	nA	$V_{GE}=25V, V_{CE}=0V$
				-100		$V_{GE}=-25V, V_{CE}=0V$
C_{ies}	Input capacitance		2756		pF	$V_{GS} = 0V$
C_{oes}	Output capacitance		123			$V_{DS} = 25V$
C_{res}	Reverse transfer capacitance		70			1MHz

$t_{d(on)}$ Turn-on delay time

n



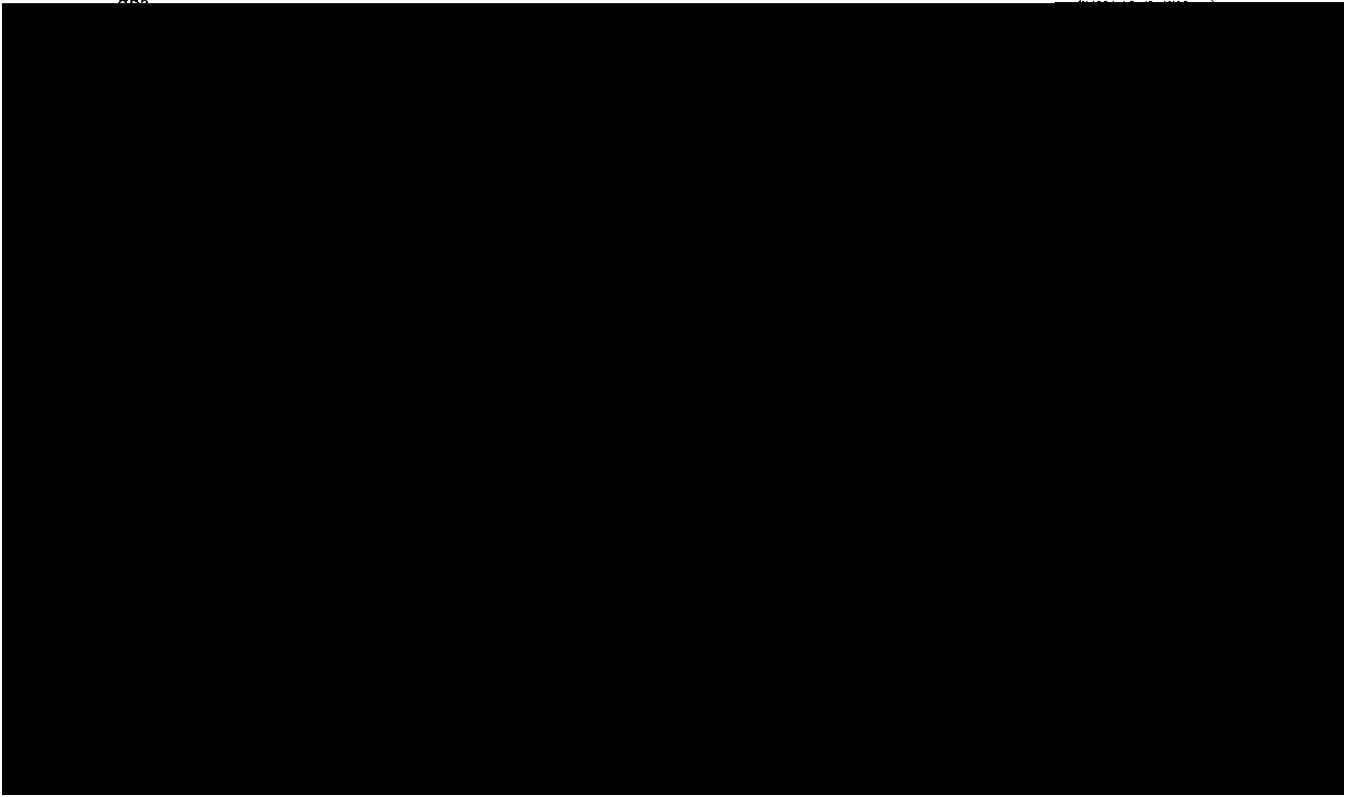


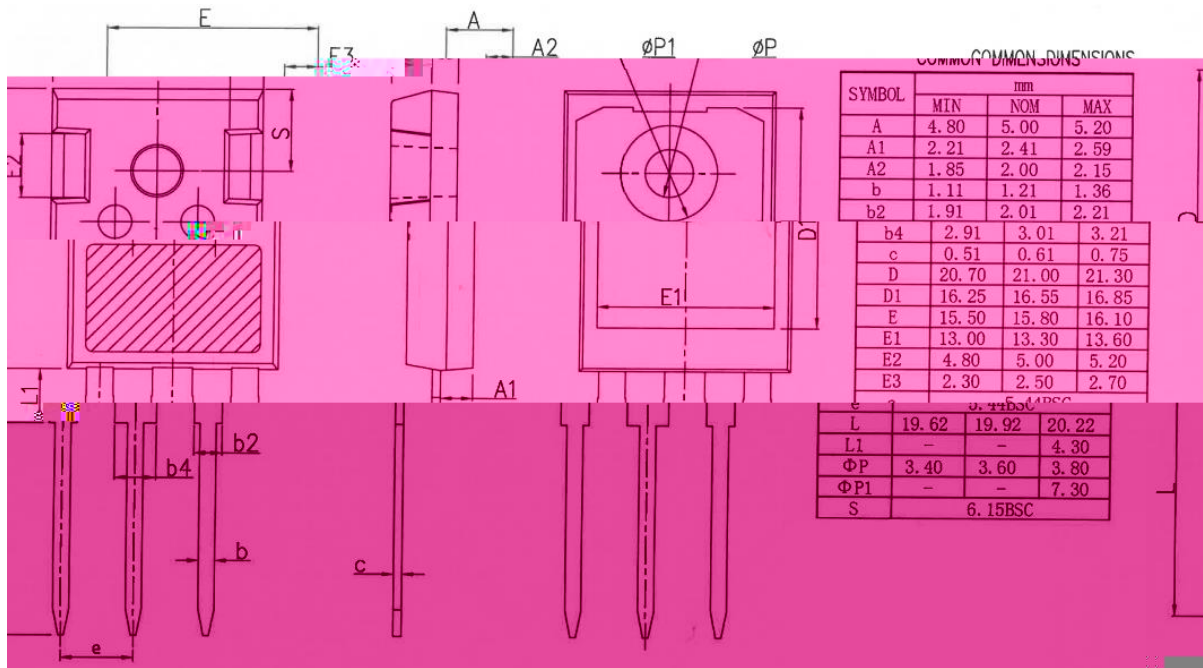




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COMMON DIMENSIONS







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