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600 V, NPT IGBT

The HGTG30N60B3 combines the best features of high input impedance of a MOSFET and the low on-state conduction loss of a bipolar transistor. The IGBT is ideal for many high voltage switching applications operating at moderate frequencies where low conduction losses are essential, such as: UPS, solar inverter and power supplies.

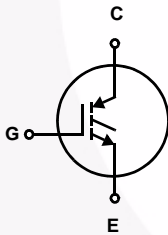
Formerly Developmental Type TA49170.

Ordering Information

PART NUMBER	PACKAGE	BRAND
HGTG30N60B3	TO-247	G30N60B3

NOTE: When ordering, use the entire part number.

Symbol

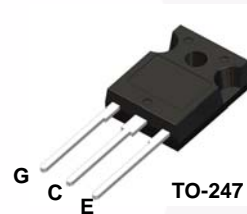


Features

- 30 A, 600 V, $T_C = 110^\circ\text{C}$
- Low Saturation Voltage: $V_{CE(sat)} = 1.45\text{ V @ } I_C = 30\text{ A}$
- Typical Fall Time. 90ns at $T_J = 150^\circ\text{C}$
- Short Circuit Rating
- Low Conduction Loss

Packaging

JEDEC STYLE TO-247



HGTG30N60B3

Absolute Maximum Ratings $T_C = 25^\circ\text{C}$, Unless Otherwise Specified

	Ratings	UNIT
Collector to Emitter Voltage	600	V
Collector Current Continuous		
At $T_C = 25^\circ\text{C}$	60	A
At $T_C = 110^\circ\text{C}$	30	A
Collector Current Pulsed (Note 1)	220	A
Gate to Emitter Voltage Continuous	± 20	V
Gate to Emitter Voltage Pulsed	± 30	V
Switching Safe Operating Area at $T_J = 150^\circ\text{C}$ (Figure 2)	60 A at 600 V	
Power Dissipation Total at $T_C = 25^\circ\text{C}$	208	W
Power Dissipation Derating $T_C > 25^\circ\text{C}$	1.67	W/ $^\circ\text{C}$
Reverse Voltage Avalanche Energy	100	mJ
Operating and Storage Junction Temperature Range	-55 to 150	$^\circ\text{C}$
Maximum Lead Temperature for Soldering	260	$^\circ\text{C}$
Short Circuit Withstand Time (Note 2) at $V_{GE} = 12\text{ V}$	4	μs
Short Circuit Withstand Time (Note 2) at $V_{GE} = 10\text{ V}$	10	μs

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

NOTES:

- Pulse width limited by maximum junction temperature.
- $V_{CE(PK)} = 360\text{ V}$, $T_J = 125^\circ\text{C}$, $R_G = 3\ \Omega$.

Electrical Specifications $T_C = 25^\circ\text{C}$, Unless Otherwise Specified

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Collector to Emitter Breakdown Voltage	BV_{CES}	$I_C = 250\ \mu\text{A}$, $V_{GE} = 0\text{ V}$	600	-	-	V	
Emitter to Collector Breakdown Voltage	BV_{ECS}	$I_C = -10\text{ mA}$, $V_{GE} = 0\text{ V}$	20	-	-	V	
Collector to Emitter Leakage Current	I_{CES}	$V_{CE} = BV_{CES}$	$T_C = 25^\circ\text{C}$	-	-	250	μA
			$T_C = 150^\circ\text{C}$	-	-	3.0	mA
Collector to Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = I_{C110}$, $V_{GE} = 15\text{ V}$	$T_C = 25^\circ\text{C}$	-	1.45	1.9	V
			$T_C = 150^\circ\text{C}$	-	1.7	2.1	V
Gate to Emitter Threshold Voltage	$V_{GE(TH)}$	$I_C = 250\ \mu\text{A}$, $V_{CE} = V_{GE}$	4.2	5.0	6.0	V	
Gate to Emitter Leakage Current	I_{GES}	$V_{GE} = \pm 20\text{ V}$	-	-	± 250	nA	
Switching SOA	SSOA	$T_J = 150^\circ\text{C}$, $R_G = 3\ \Omega$, $V_{GE} = 15\text{ V}$, $L = 100\ \mu\text{H}$	$V_{CE(PK)} = 480\text{ V}$	200	-	-	A
			$V_{CE(PK)} = 600\text{ V}$	60	-	-	A
Gate to Emitter Plateau Voltage	V_{GEP}	$I_C = I_{C110}$, $V_{CE} = 0.5 BV_{CES}$	-	7.2	-	V	
On-State Gate Charge	$Q_{G(ON)}$	$I_C = I_{C110}$, $V_{CE} = 0.5 BV_{CES}$	$V_{GE} = 15\text{ V}$	-	170	190	nC
			$V_{GE} = 20\text{ V}$	-	230	250	nC
Current Turn-On Delay Time	$t_{d(ON)I}$	IGBT and Diode at $T_J = 25^\circ\text{C}$ $I_{CE} = I_{C110}$ $V_{CE} = 0.8 BV_{CES}$ $V_{GE} = 15\text{ V}$ $R_G = 3\ \Omega$ $L = 1\text{ mH}$ Test Circuit (Figure 17)	-	36	-	ns	
Current Rise Time	t_{rI}		-	25	-	ns	
Current Turn-Off Delay Time	$t_{d(OFF)I}$		-	137	-	ns	
Current Fall Time	t_{fI}		-	58	-	ns	
Turn-On Energy (Note 4)	E_{ON1}		-	500	-	μJ	
Turn-On Energy (Note 4)	E_{ON2}		-	550	800	μJ	
Turn-Off Energy (Note 3)	E_{OFF}	-	680	900	μJ		

HGTG30N60B3

Electrical Specifications $T_C = 25^\circ\text{C}$, Unless Otherwise Specified (Continued)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Current Turn-On Delay Time	$t_{d(ON)}$	IGBT and Diode at $T_J = 150^\circ\text{C}$ $I_{CE} = I_{C110}$ $V_{CE} = 0.8 V_{CES}$ $V_{GE} = 15\text{ V}$ $R_G = 3\ \Omega$ $L = 1\text{ mH}$ Test Circuit (Figure 17)	-	32	-	ns
Current Rise Time	t_{r1}		-	24	-	ns
Current Turn-Off Delay Time	$t_{d(OFF)}$		-	275	320	ns
Current Fall Time	t_{f1}		-	90	150	ns
Turn-On Energy (Note 4)	E_{ON1}		-	500	-	μJ
Turn-On Energy (Note 4)	E_{ON2}		-	1300	1550	μJ
Turn-Off Energy (Note 3)	E_{OFF}		-	1600	1900	μJ
Thermal Resistance Junction To Case	$R_{\theta JC}$		-	-	0.6	$^\circ\text{C/W}$

NOTES:

- Turn-Off Energy Loss (E_{OFF}) is defined as the integral of the instantaneous power loss starting at the trailing edge of the input pulse and ending at the point where the collector current equals zero ($I_{CE} = 0\text{ A}$). All devices were tested per JEDEC Standard No. 24-1 Method for Measurement of Power Device Turn-Off Switching Loss. This test method produces the true total Turn-Off Energy Loss.
- Values for two Turn-On loss conditions are shown for the convenience of the circuit designer. E_{ON1} is the turn-on loss of the IGBT only. E_{ON2} is the turn-on loss when a typical diode is used in the test circuit and the diode is at the same T_J as the IGBT. The diode type is specified in Figure 17.

Typical Performance Curves Unless Otherwise Specified

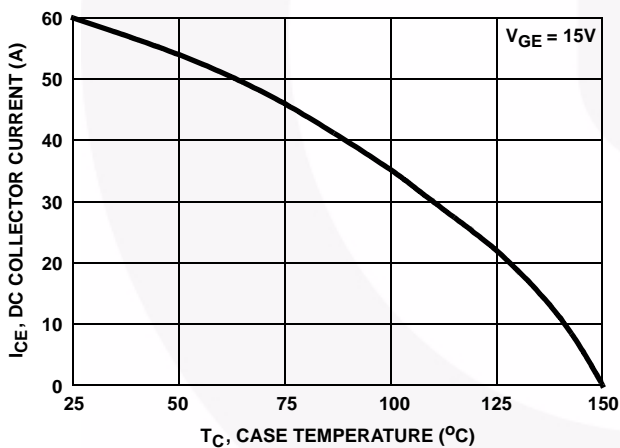


FIGURE 1. DC COLLECTOR CURRENT vs CASE TEMPERATURE

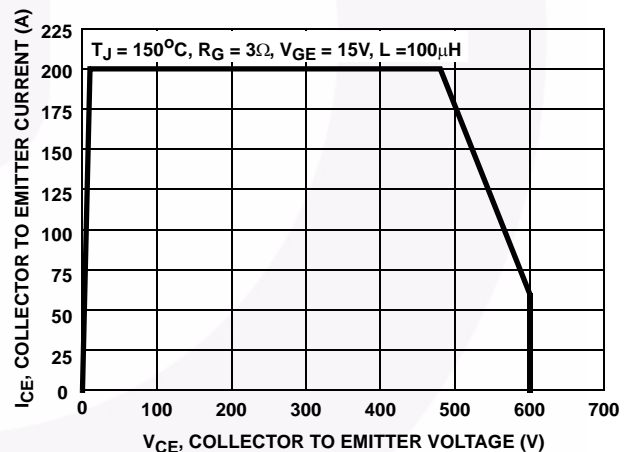


FIGURE 2. MINIMUM SWITCHING SAFE OPERATING AREA

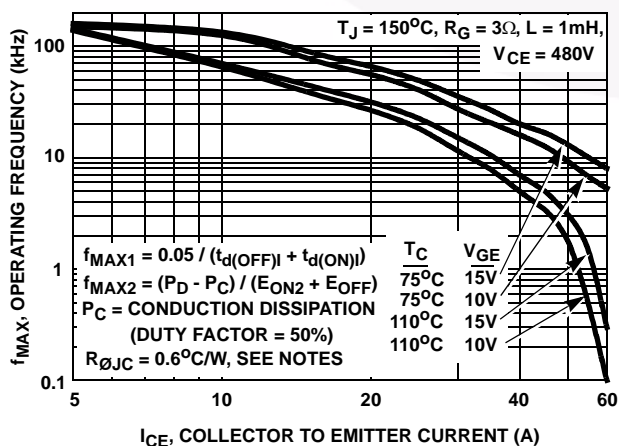


FIGURE 3. OPERATING FREQUENCY vs COLLECTOR TO EMITTER CURRENT

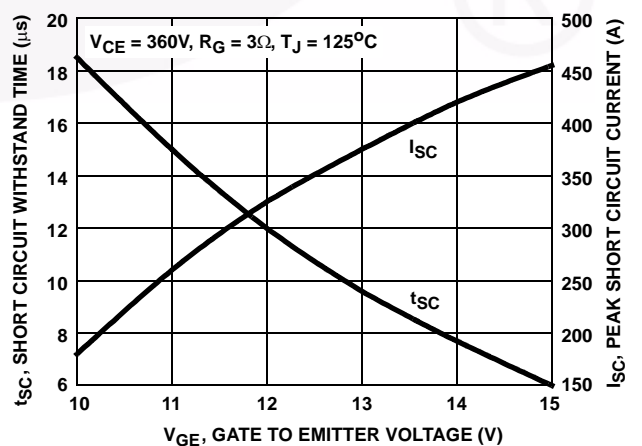


FIGURE 4. SHORT CIRCUIT WITHSTAND TIME

Typical Performance Curves Unless Otherwise Specified (Continued)

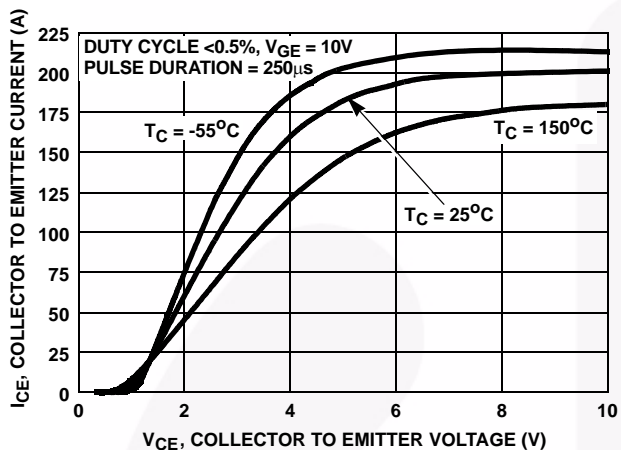


FIGURE 5. COLLECTOR TO EMITTER ON-STATE VOLTAGE

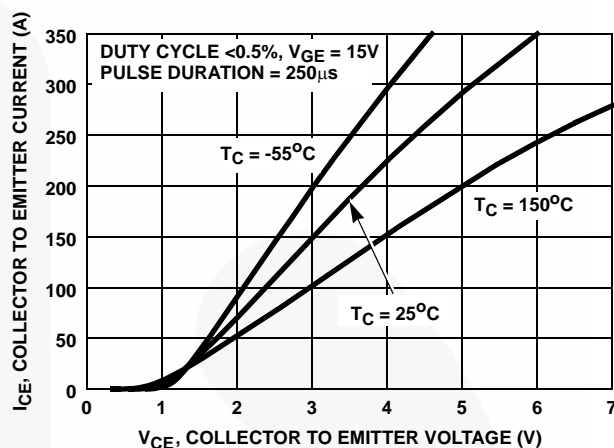


FIGURE 6. COLLECTOR TO EMITTER ON-STATE VOLTAGE

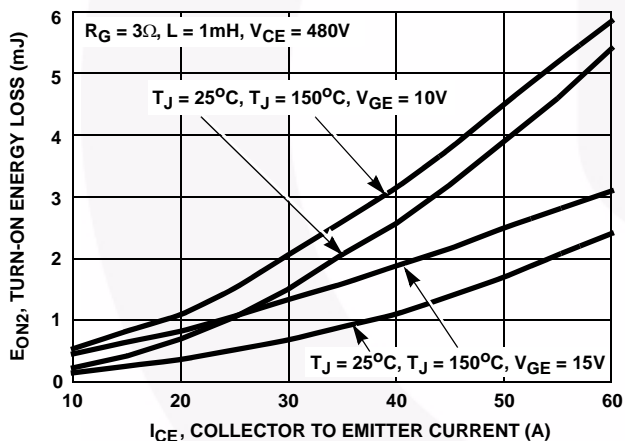


FIGURE 7. TURN-ON ENERGY LOSS vs COLLECTOR TO EMITTER CURRENT

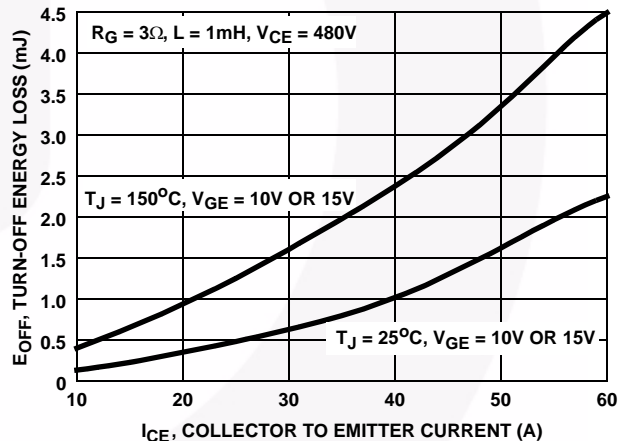


FIGURE 8. TURN-OFF ENERGY LOSS vs COLLECTOR TO EMITTER CURRENT

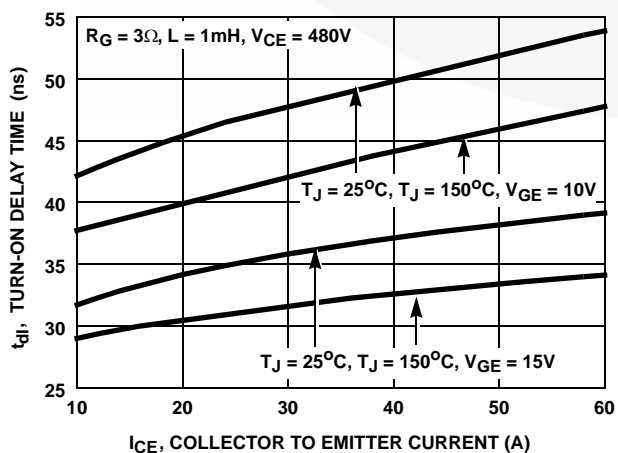


FIGURE 9. TURN-ON DELAY TIME vs COLLECTOR TO EMITTER CURRENT

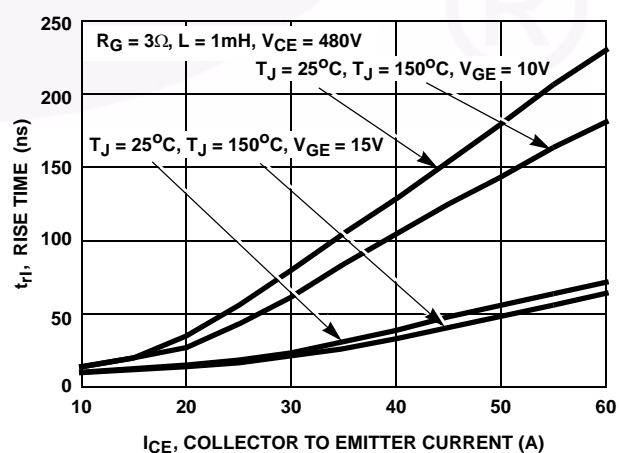


FIGURE 10. TURN-ON RISE TIME vs COLLECTOR TO EMITTER CURRENT

Typical Performance Curves Unless Otherwise Specified (Continued)

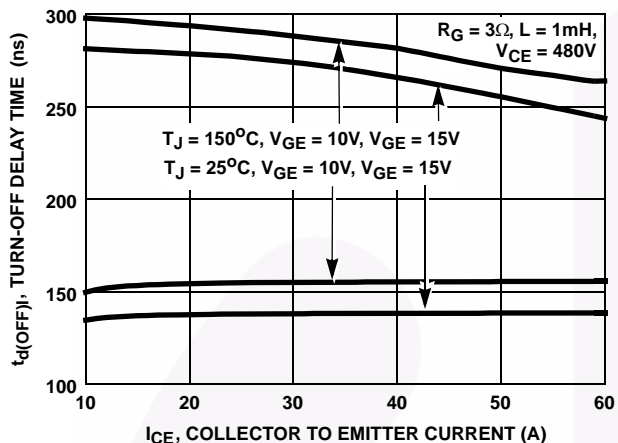


FIGURE 11. TURN-OFF DELAY TIME vs COLLECTOR TO EMITTER CURRENT

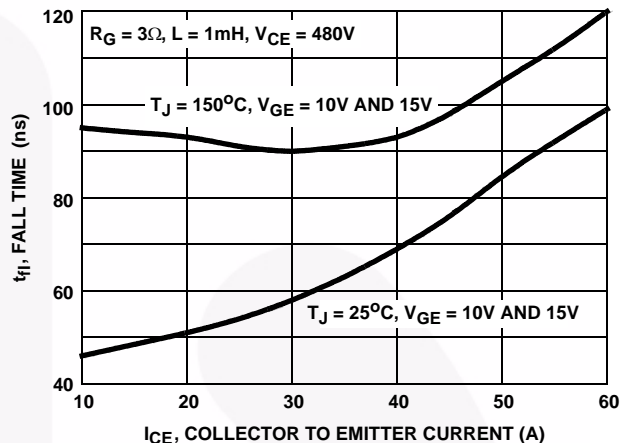


FIGURE 12. FALL TIME vs COLLECTOR TO EMITTER CURRENT

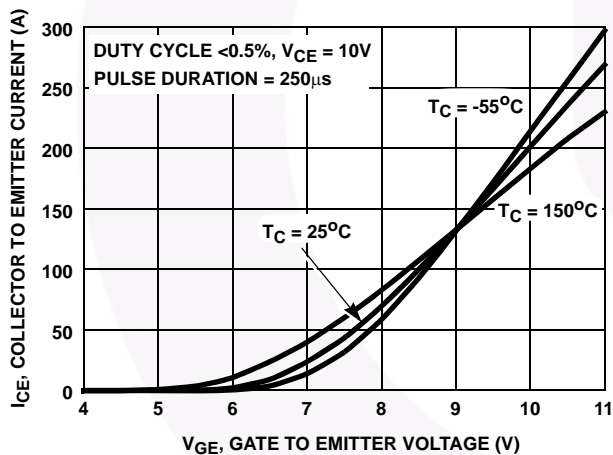


FIGURE 13. TRANSFER CHARACTERISTIC

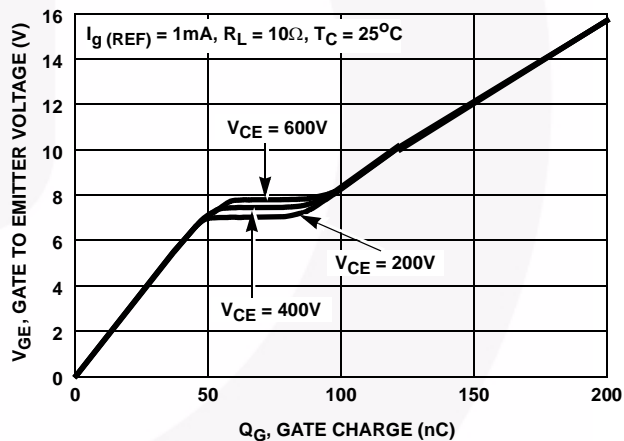


FIGURE 14. GATE CHARGE WAVEFORMS

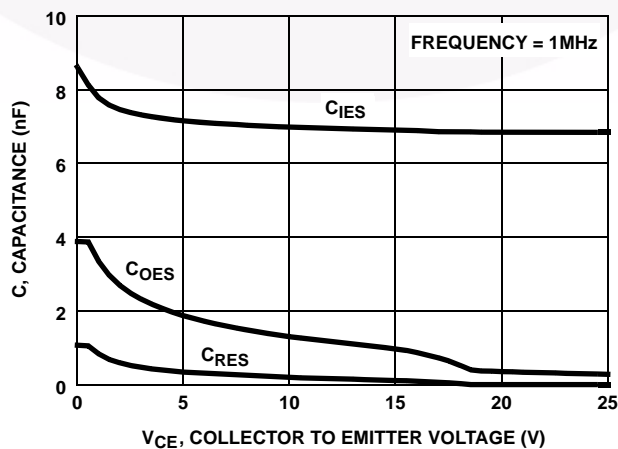


FIGURE 15. CAPACITANCE vs COLLECTOR TO EMITTER VOLTAGE

Typical Performance Curves Unless Otherwise Specified (Continued)

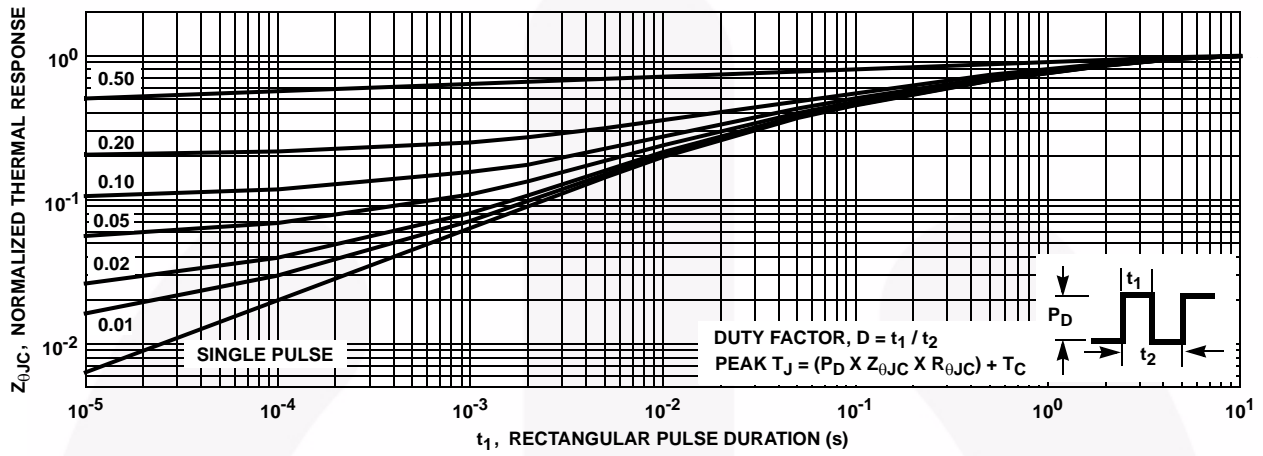


FIGURE 16. NORMALIZED TRANSIENT THERMAL RESPONSE, JUNCTION TO CASE

Test Circuit and Waveforms

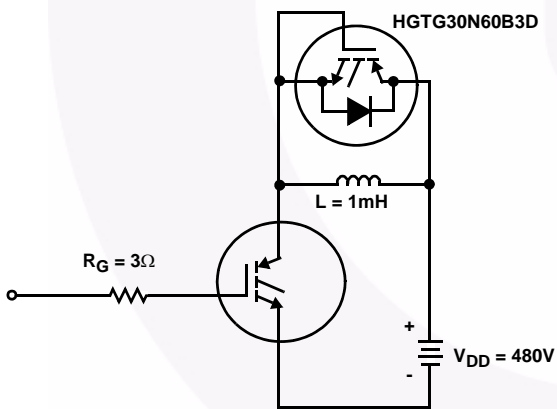


FIGURE 17. INDUCTIVE SWITCHING TEST CIRCUIT

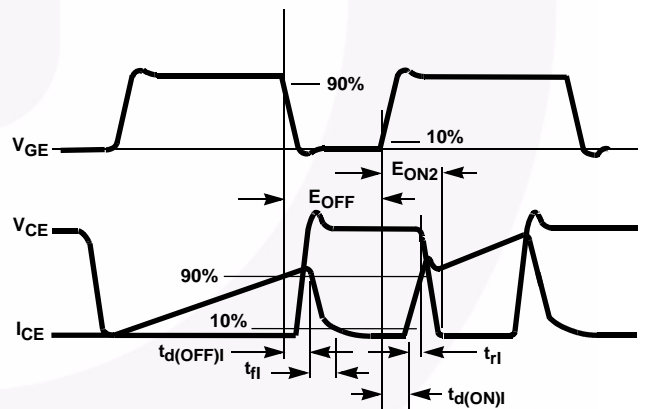


FIGURE 18. SWITCHING TEST WAVEFORMS

Handling Precautions for IGBTs

Insulated Gate Bipolar Transistors are susceptible to gate-insulation damage by the electrostatic discharge of energy through the devices. When handling these devices, care should be exercised to assure that the static charge built in the handler's body capacitance is not discharged through the device. With proper handling and application procedures, however, IGBTs are currently being extensively used in production by numerous equipment manufacturers in military, industrial and consumer applications, with virtually no damage problems due to electrostatic discharge. IGBTs can be handled safely if the following basic precautions are taken:

1. Prior to assembly into a circuit, all leads should be kept shorted together either by the use of metal shorting springs or by the insertion into conductive material such as "ECCOSORB™ LD26" or equivalent.
2. When devices are removed by hand from their carriers, the hand being used should be grounded by any suitable means - for example, with a metallic wristband.
3. Tips of soldering irons should be grounded.
4. Devices should never be inserted into or removed from circuits with power on.
5. **Gate Voltage Rating** - Never exceed the gate-voltage rating of V_{GEM} . Exceeding the rated V_{GE} can result in permanent damage to the oxide layer in the gate region.
6. **Gate Termination** - The gates of these devices are essentially capacitors. Circuits that leave the gate open-circuited or floating should be avoided. These conditions can result in turn-on of the device due to voltage buildup on the input capacitor due to leakage currents or pickup.
7. **Gate Protection** - These devices do not have an internal monolithic Zener diode from gate to emitter. If gate protection is required an external Zener is recommended.

Operating Frequency Information

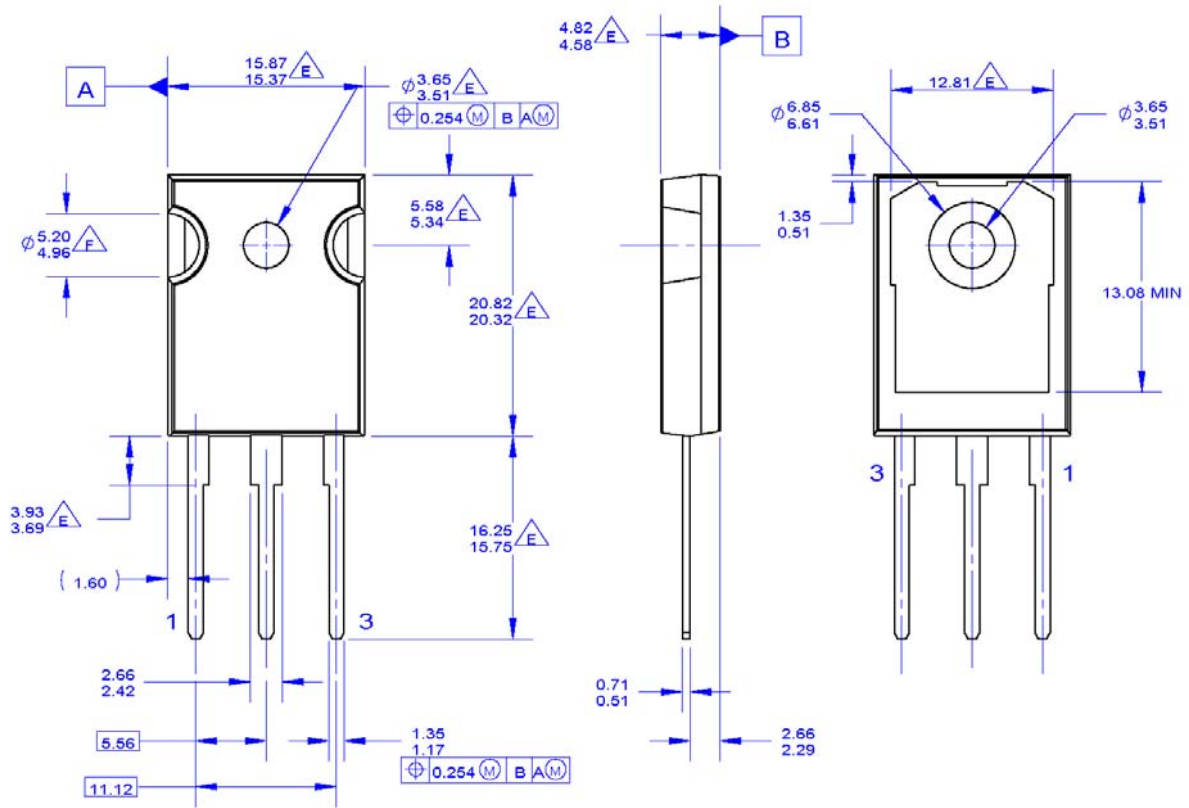
Operating frequency information for a typical device (Figure 3) is presented as a guide for estimating device performance for a specific application. Other typical frequency vs collector current (I_{CE}) plots are possible using the information shown for a typical unit in Figures 5, 6, 7, 8, 9 and 11. The operating frequency plot (Figure 3) of a typical device shows f_{MAX1} or f_{MAX2} ; whichever is smaller at each point. The information is based on measurements of a typical device and is bounded by the maximum rated junction temperature.

f_{MAX1} is defined by $f_{MAX1} = 0.05 / (t_{d(OFF)I} + t_{d(ON)I})$. Deadtime (the denominator) has been arbitrarily held to 10% of the on-state time for a 50% duty factor. Other definitions are possible. $t_{d(OFF)I}$ and $t_{d(ON)I}$ are defined in Figure 18. Device turn-off delay can establish an additional frequency limiting condition for an application other than T_{JM} . $t_{d(OFF)I}$ is important when controlling output ripple under a lightly loaded condition.

f_{MAX2} is defined by $f_{MAX2} = (P_D - P_C) / (E_{OFF} + E_{ON2})$. The allowable dissipation (P_D) is defined by $P_D = (T_{JM} - T_C) / R_{\theta JC}$. The sum of device switching and conduction losses must not exceed P_D . A 50% duty factor was used (Figure 3) and the conduction losses (P_C) are approximated by $P_C = (V_{CE} \times I_{CE}) / 2$.

E_{ON2} and E_{OFF} are defined in the switching waveforms shown in Figure 18. E_{ON2} is the integral of the instantaneous power loss ($I_{CE} \times V_{CE}$) during turn-on and E_{OFF} is the integral of the instantaneous power loss ($I_{CE} \times V_{CE}$) during turn-off. All tail losses are included in the calculation for E_{OFF} ; i.e., the collector current equals zero ($I_{CE} = 0$).

Mechanical Dimensions



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- A. PACKAGE REFERENCE: JEDEC TO-247, ISSUE E, VARIATION AB, DATED JUNE, 2004.
- B. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- C. ALL DIMENSIONS ARE IN MILLIMETERS.
- D. DRAWING CONFORMS TO ASME Y14.5 - 1994

- DOES NOT COMPLY JEDEC STANDARD VALUE
- NOTCH MAY BE SQUARE
- G. DRAWING FILENAME: MKT-TO247A03_REV03

Figure 19. TO-247 3L - TO-247,MOLDED,3 LEAD,JEDEC VARIATION AB

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