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May 2014

# FGB3040G2\_F085 / FGD3040G2\_F085 FGP3040G2\_F085 / FGI3040G2\_F085

## EcoSPARK<sup>®</sup> 2 300mJ, 400V, N-Channel Ignition IGBT

### Features

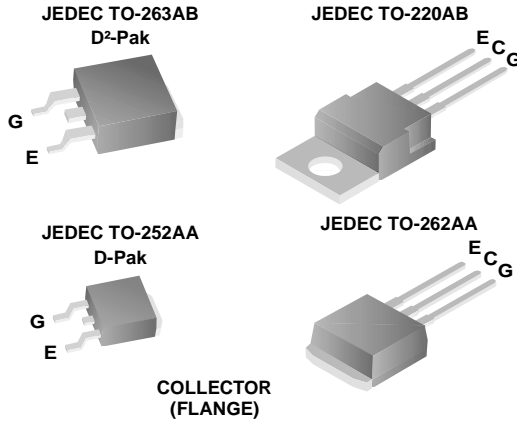
- SCIS Energy = 300mJ at  $T_J = 25^\circ\text{C}$
- Logic Level Gate Drive
- Qualified to AEC Q101
- RoHS Compliant

### Applications

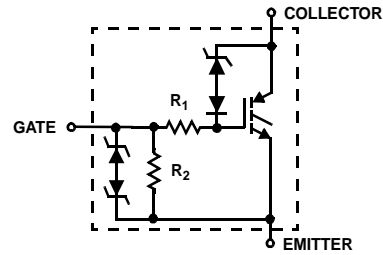
- Automotive Ignition Coil Driver Circuits
- Coil On Plug Applications



### Package



### Symbol



### Device Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol        | Parameter   | Rated       | Units               |
|---------------|---|-------------|---------------------|
| $BV_{CER}$    | Collector to Emitter Breakdown Voltage ( $I_C = 1\text{mA}$ )                       | 400         | V                   |
| $BV_{ECS}$    | Emitter to Collector Voltage - Reverse Battery Condition ( $I_C = 10\text{mA}$ )    | 28          | V                   |
| $E_{SCIS25}$  | Self Clamping Inductive Switching Energy (Note 1)                                   | 300         | mJ                  |
| $E_{SCIS150}$ | Self Clamping Inductive Switching Energy (Note 2)                                   | 170         | mJ                  |
| $I_{C25}$     | Collector Current Continuous, at $V_{GE} = 5.0\text{V}$ , $T_C = 25^\circ\text{C}$  | 41          | A                   |
| $I_{C110}$    | Collector Current Continuous, at $V_{GE} = 5.0\text{V}$ , $T_C = 110^\circ\text{C}$ | 25.6        | A                   |
| $V_{GEM}$     | Gate to Emitter Voltage Continuous  | $\pm 10$    | V                   |
| $P_D$         | Power Dissipation Total, at $T_C = 25^\circ\text{C}$                                | 150         | W                   |
|               | Power Dissipation Derating, for $T_C > 25^\circ\text{C}$                            | 1           | W/ $^\circ\text{C}$ |
| $T_J$         | Operating Junction Temperature Range  | -55 to +175 | $^\circ\text{C}$    |
| $T_{STG}$     | Storage Junction Temperature Range  | -55 to +175 | $^\circ\text{C}$    |
| $T_L$         | Max. Lead Temp. for Soldering (Leads at 1.6mm from case for 10s)                    | 300         | $^\circ\text{C}$    |
| $T_{PKG}$     | Reflow soldering according to JESD020C  | 260         | $^\circ\text{C}$    |
| ESD           | HBM-Electrostatic Discharge Voltage at 100pF, 1500 $\Omega$                         | 4           | kV                  |
|               | CDM-Electrostatic Discharge Voltage at 1 $\Omega$                                   | 2           | kV                  |

FGB3040G2\_F085 / FGD3040G2\_F085 / FGP3040G2\_F085 / FGI3040G2\_F085

## Package Marking and Ordering Information

| Device Marking | Device         | Package  | Reel Size | Tape Width | Quantity |
|----------------|----------------|----------|-----------|------------|----------|
| FGB3040G2      | FGB3040G2_F085 | TO-263AB | 330mm     | 24mm       | 800      |
| FGD3040G2      | FGD3040G2_F085 | TO-252AA | 330mm     | 16mm       | 2500     |
| FGP3040G2      | FGP3040G2_F085 | TO-220AB | Tube      | N/A        | 50       |
| FGI3040G2      | FGI3040G2_F085 | TO-262AA | Tube      | N/A        | 50       |

## Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Units |
|--------|-----------|-----------------|-----|-----|-----|-------|
|--------|-----------|-----------------|-----|-----|-----|-------|

### Off State Characteristics

|                   |  |   |                           |          |     |          |               |
|-------------------|--|---|---------------------------|----------|-----|----------|---------------|
| $BV_{\text{CER}}$ | Collector to Emitter Breakdown Voltage | $I_{\text{CE}} = 2\text{mA}, V_{\text{GE}} = 0,$<br>$R_{\text{GE}} = 1\text{K}\Omega,$<br>$T_J = -40 \text{ to } 150^\circ\text{C}$ | 370                       | 400      | 430 | V        |               |
| $BV_{\text{CES}}$ | Collector to Emitter Breakdown Voltage | $I_{\text{CE}} = 10\text{mA}, V_{\text{GE}} = 0\text{V},$<br>$R_{\text{GE}} = 0,$<br>$T_J = -40 \text{ to } 150^\circ\text{C}$      | 390                       | 420      | 450 | V        |               |
| $BV_{\text{ECS}}$ | Emitter to Collector Breakdown Voltage | $I_{\text{CE}} = -20\text{mA}, V_{\text{GE}} = 0\text{V},$<br>$T_J = 25^\circ\text{C}$  | 28                        | -        | -   | V        |               |
| $BV_{\text{GES}}$ | Gate to Emitter Breakdown Voltage      | $I_{\text{GES}} = \pm 2\text{mA}$   | $\pm 12$                  | $\pm 14$ | -   | V        |               |
| $I_{\text{CER}}$  | Collector to Emitter Leakage Current   | $V_{\text{CE}} = 250\text{V}, R_{\text{GE}} = 1\text{K}\Omega$  | $T_J = 25^\circ\text{C}$  | -        | -   | 25       | $\mu\text{A}$ |
|                   |  |   | $T_J = 150^\circ\text{C}$ | -        | -   | 1        | mA            |
| $I_{\text{ECS}}$  | Emitter to Collector Leakage Current   | $V_{\text{EC}} = 24\text{V},$   | $T_J = 25^\circ\text{C}$  | -        | -   | 1        | mA            |
|                   |  |   | $T_J = 150^\circ\text{C}$ | -        | -   | 40       | mA            |
| $R_1$             | Series Gate Resistance                 |   | -                         | 120      | -   | $\Omega$ |               |
| $R_2$             | Gate to Emitter Resistance             |   | 10K                       | -        | 30K | $\Omega$ |               |

### On State Characteristics

|                      |   |  |                           |   |      |      |    |
|----------------------|---|--|---------------------------|---|------|------|----|
| $V_{\text{CE(SAT)}}$ | Collector to Emitter Saturation Voltage | $I_{\text{CE}} = 6\text{A}, V_{\text{GE}} = 4\text{V},$  | $T_J = 25^\circ\text{C}$  | - | 1.15 | 1.25 | V  |
| $V_{\text{CE(SAT)}}$ | Collector to Emitter Saturation Voltage | $I_{\text{CE}} = 10\text{A}, V_{\text{GE}} = 4.5\text{V},$                                     | $T_J = 150^\circ\text{C}$ | - | 1.35 | 1.50 | V  |
| $V_{\text{CE(SAT)}}$ | Collector to Emitter Saturation Voltage | $I_{\text{CE}} = 15\text{A}, V_{\text{GE}} = 4.5\text{V},$                                     | $T_J = 150^\circ\text{C}$ | - | 1.68 | 1.85 | V  |
| $E_{\text{SCIS}}$    | Self Clamped Inductive Switching        | $L = 3.0 \text{ mHy}, R_G = 1\text{K}\Omega,$<br>$V_{\text{GE}} = 5\text{V}, (\text{Note } 1)$ | $T_J = 25^\circ\text{C}$  | - | -    | 300  | mJ |

### Thermal Characteristics

|                       |                                     |  |   |   |   |                    |
|-----------------------|-------------------------------------|--|---|---|---|--------------------|
| $R_{\theta\text{JC}}$ | Thermal Resistance Junction to Case |  | - | - | 1 | $^\circ\text{C/W}$ |
|-----------------------|-------------------------------------|--|---|---|---|--------------------|

### Notes:

- 1: Self Clamping Inductive Switching Energy ( $E_{\text{SCIS}25}$ ) of 300 mJ is based on the test conditions that starting  $T_J = 25^\circ\text{C}$ ;  $L = 3\text{mHy}$ ,  $I_{\text{SCIS}} = 14.2\text{A}$ ,  $V_{\text{CC}} = 100\text{V}$  during inductor charging and  $V_{\text{CC}} = 0\text{V}$  during the time in clamp.
- 2: Self Clamping Inductive Switching Energy ( $E_{\text{SCIS}150}$ ) of 170 mJ is based on the test conditions that starting  $T_J = 150^\circ\text{C}$ ;  $L = 3\text{mHy}$ ,  $I_{\text{SCIS}} = 10.8\text{A}$ ,  $V_{\text{CC}} = 100\text{V}$  during inductor charging and  $V_{\text{CC}} = 0\text{V}$  during the time in clamp.

**Electrical Characteristics**  $T_A = 25^\circ\text{C}$  unless otherwise noted

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Units |
|--------|-----------|-----------------|-----|-----|-----|-------|
|--------|-----------|-----------------|-----|-----|-----|-------|

**Dynamic Characteristics**

|              |                                   |  |      |     |     |    |
|--------------|-----------------------------------|--|------|-----|-----|----|
| $Q_{G(ON)}$  | Gate Charge                       | $I_{CE} = 10\text{A}, V_{CE} = 12\text{V}, V_{GE} = 5\text{V}$ | -    | 21  | -   | nC |
| $V_{GE(TH)}$ | Gate to Emitter Threshold Voltage | $I_{CE} = 1\text{mA}, V_{CE} = V_{GE}, T_J = 25^\circ\text{C}$ | 1.3  | 1.7 | 2.2 | V  |
|              |                                   | $T_J = 150^\circ\text{C}$                                      | 0.75 | 1.2 | 1.8 |    |
| $V_{GEP}$    | Gate to Emitter Plateau Voltage   | $V_{CE} = 12\text{V}, I_{CE} = 10\text{A}$                     | -    | 2.8 | -   | V  |

**Switching Characteristics**

|               |                                       |   |   |     |    |               |
|---------------|---------------------------------------|---|---|-----|----|---------------|
| $t_{d(ON)R}$  | Current Turn-On Delay Time-Resistive  | $V_{CE} = 14\text{V}, R_L = 1\Omega$  | - | 0.9 | 4  | $\mu\text{s}$ |
| $t_{rR}$      | Current Rise Time-Resistive           | $V_{GE} = 5\text{V}, R_G = 1\text{K}\Omega, T_J = 25^\circ\text{C}$               | - | 1.9 | 7  |               |
| $t_{d(OFF)L}$ | Current Turn-Off Delay Time-Inductive | $V_{CE} = 300\text{V}, L = 1\text{mH}, V_{GE} = 5\text{V}, R_G = 1\text{K}\Omega$ | - | 4.8 | 15 | $\mu\text{s}$ |
| $t_{fL}$      | Current Fall Time-Inductive           | $I_{CE} = 6.5\text{A}, T_J = 25^\circ\text{C}$                                    | - | 2.0 | 15 |               |

## Typical Performance Curves

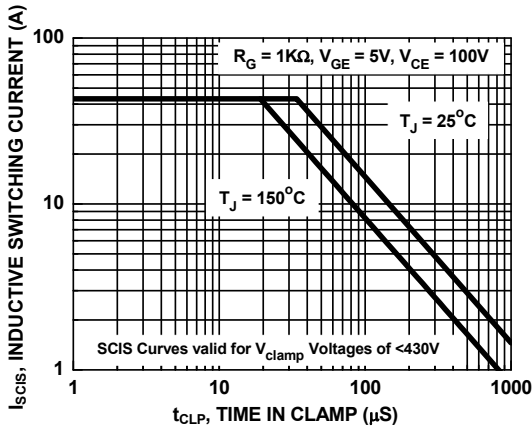


Figure 1. Self Clamped Inductive Switching Current vs. Time in Clamp

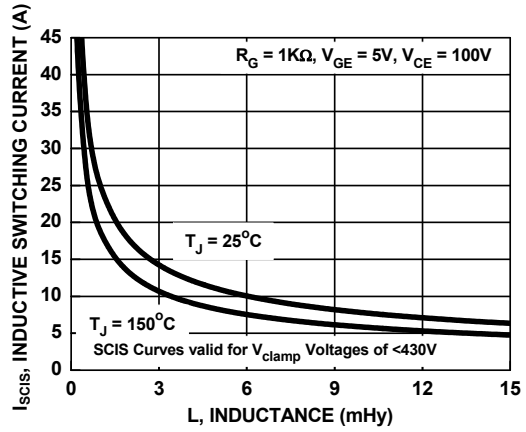


Figure 2. Self Clamped Inductive Switching Current vs. Inductance

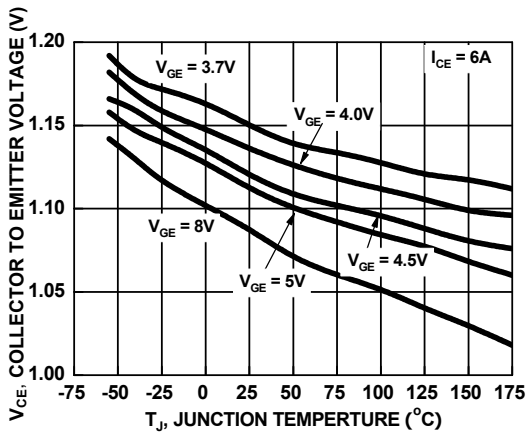


Figure 3. Collector to Emitter On-State Voltage vs. Junction Temperature

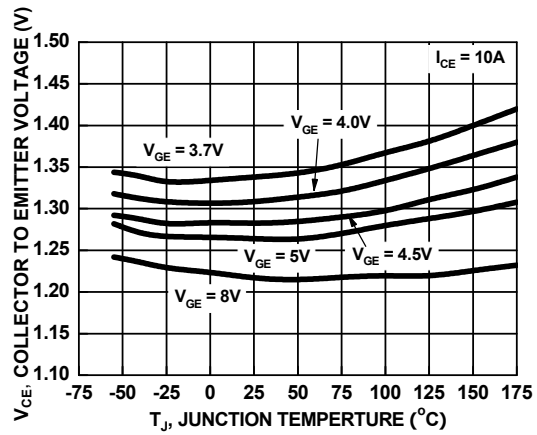


Figure 4. Collector to Emitter On-State Voltage vs. Junction Temperature

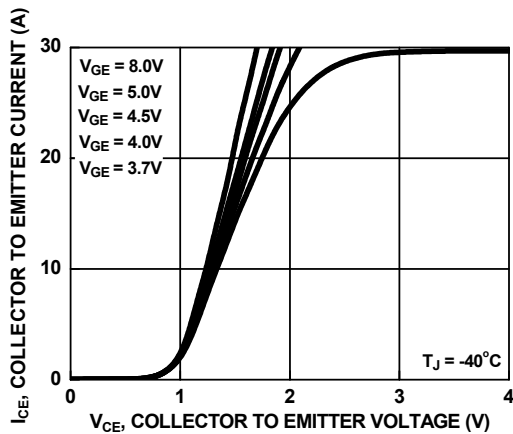


Figure 5. Collector to Emitter On-State Voltage vs. Collector Current

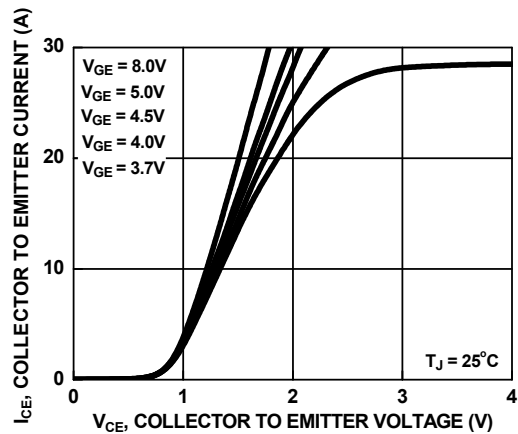
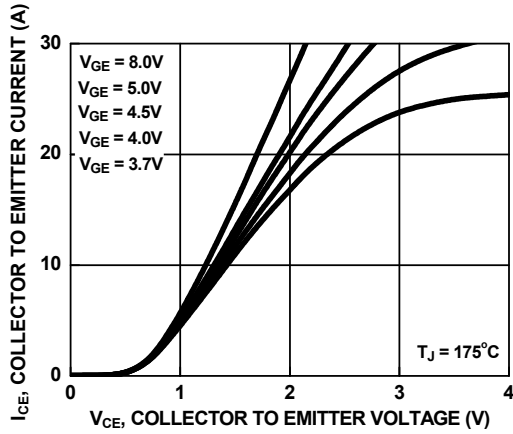
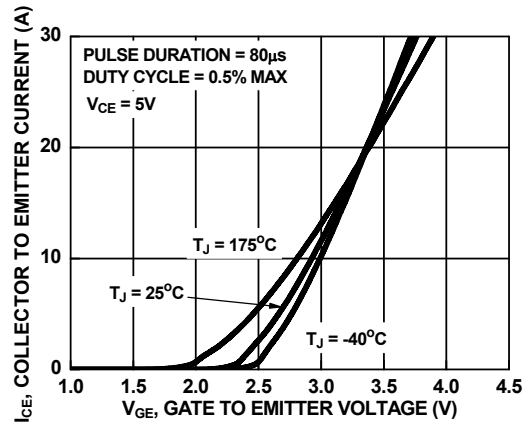


Figure 6. Collector to Emitter On-State Voltage vs. Collector Current

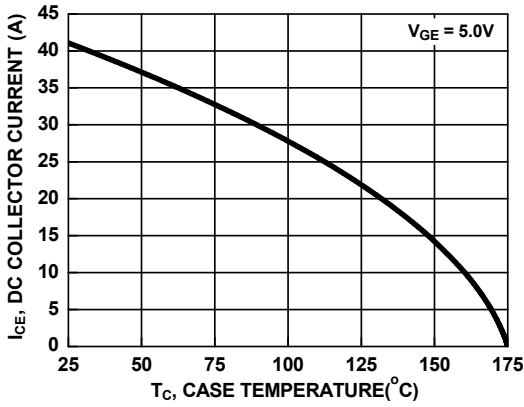
**Typical Performance Curves** (Continued)



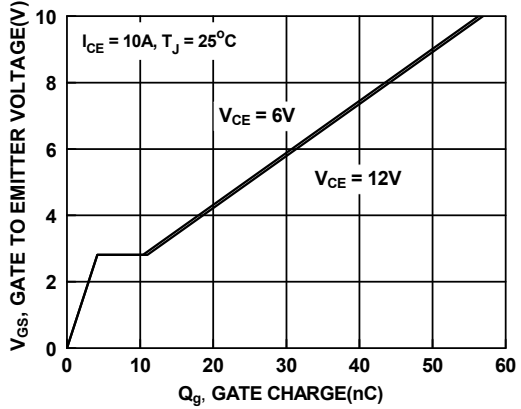
**Figure 7. Collector to Emitter On-State Voltage vs. Collector Current**



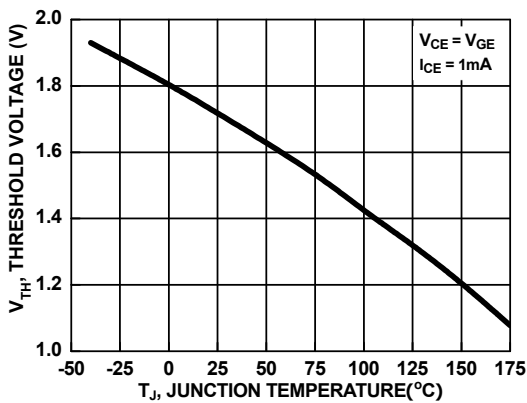
**Figure 8. Transfer Characteristics**



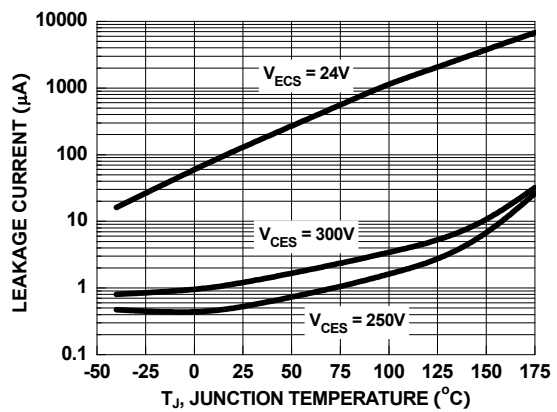
**Figure 9. DC Collector Current vs. Case Temperature**



**Figure 10. Gate Charge**

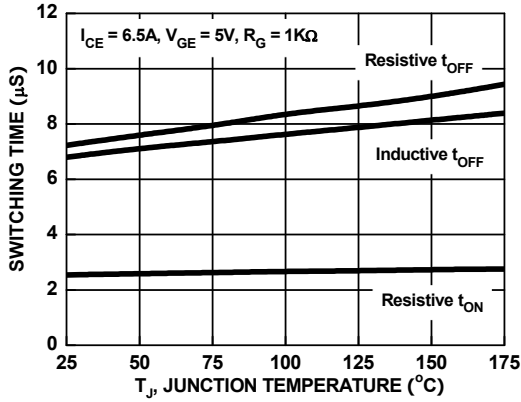


**Figure 11. Threshold Voltage vs. Junction Temperature**

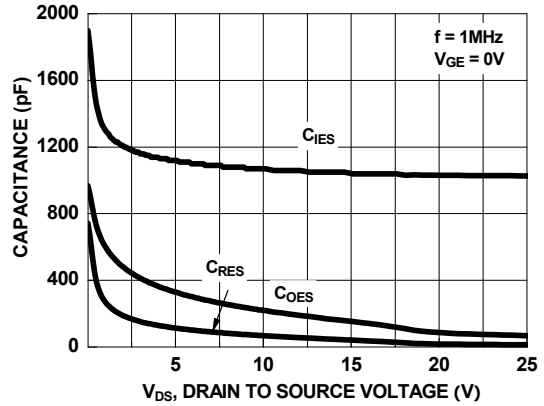


**Figure 12. Leakage Current vs. Junction Temperature**

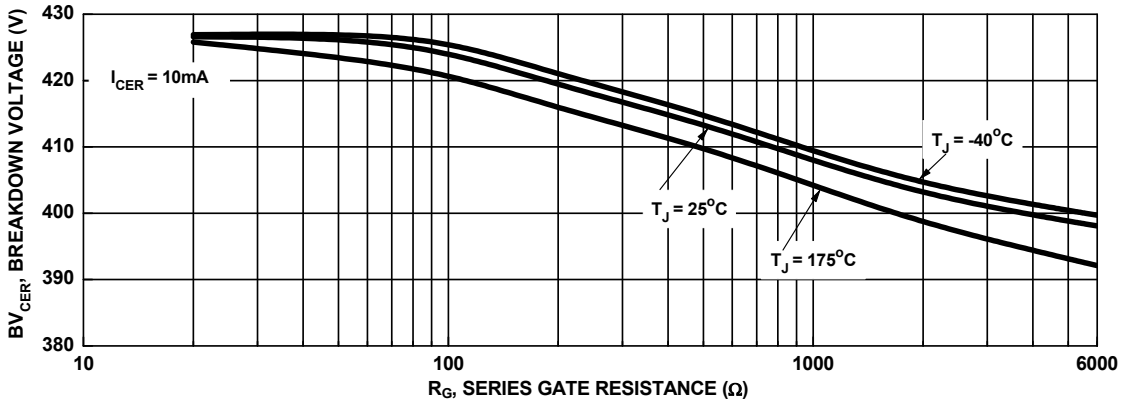
**Typical Performance Curves** (Continued)



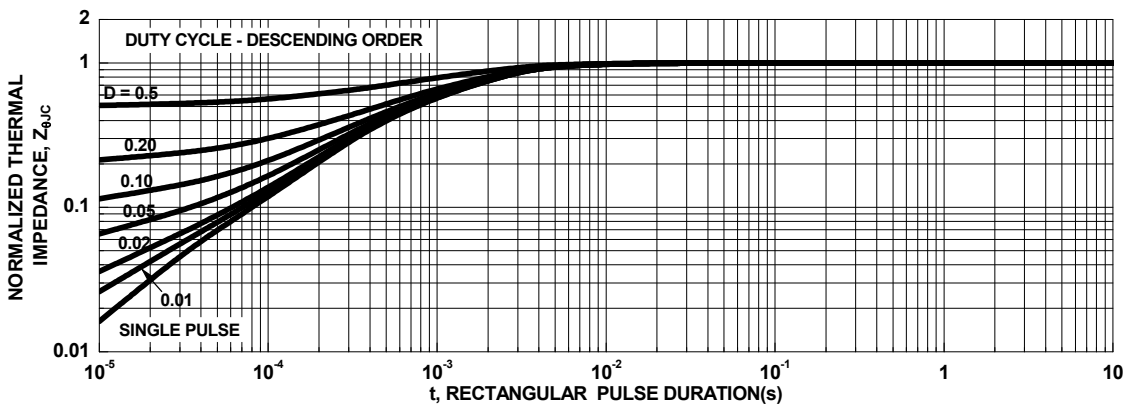
**Figure 13. Switching Time vs. Junction Temperature**



**Figure 14. Capacitance vs. Collector to Emitter Voltage**

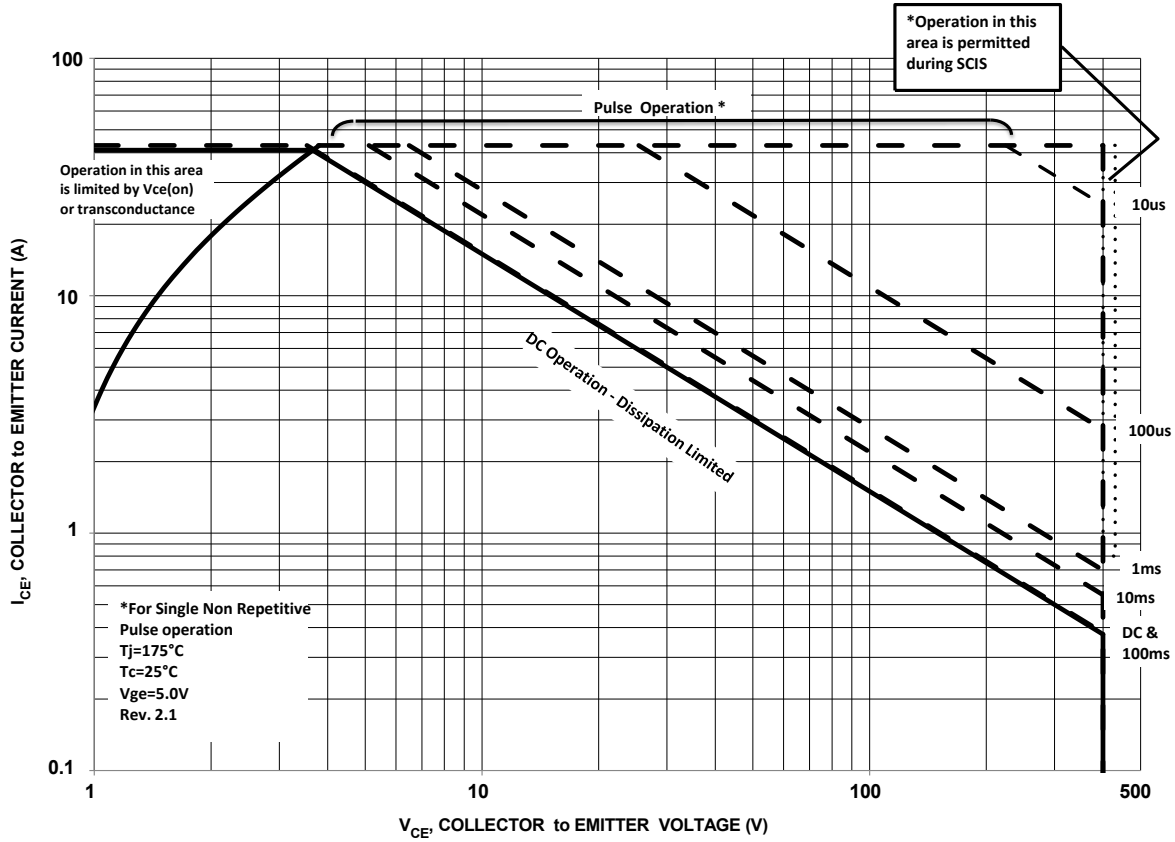


**Figure 15. Break down Voltage vs. Series Gate Resistance**



**Figure 16. IGBT Normalized Transient Thermal Impedance, Junction to Case**

### Typical Performance Curves





### Test Circuit and Waveforms

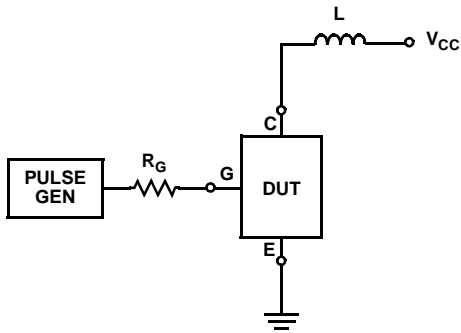


Figure 18. Inductive Switching Test Circuit

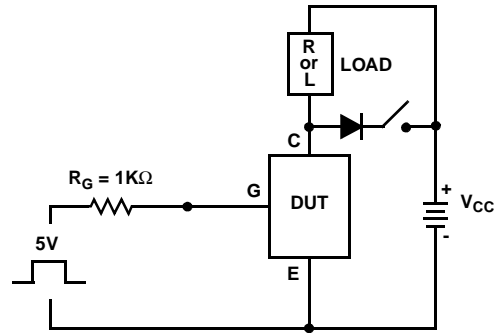


Figure 19.  $t_{ON}$  and  $t_{OFF}$  Switching Test Circuit

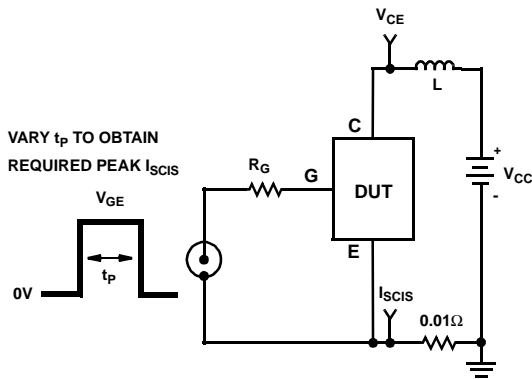


Figure 20. Energy Test Circuit

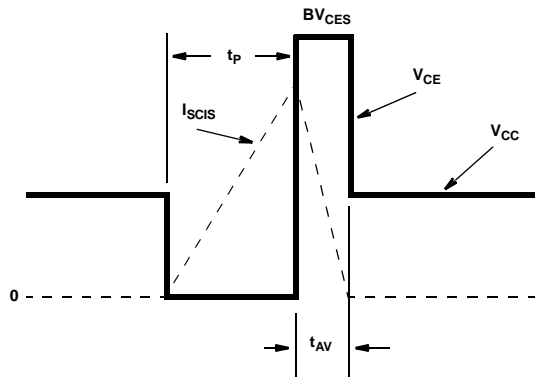







Figure 21. Energy Waveforms



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