**Electrical Characteristics** ($T_J$ = 25°C unless otherwise specified)

| Symbol | Parameter | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| **Off Characteristics** | | | | | | |
| $V_{(Min.}$ | | | | | | |

## Typical Performance Characteristics

Figure 1: Power De-rating

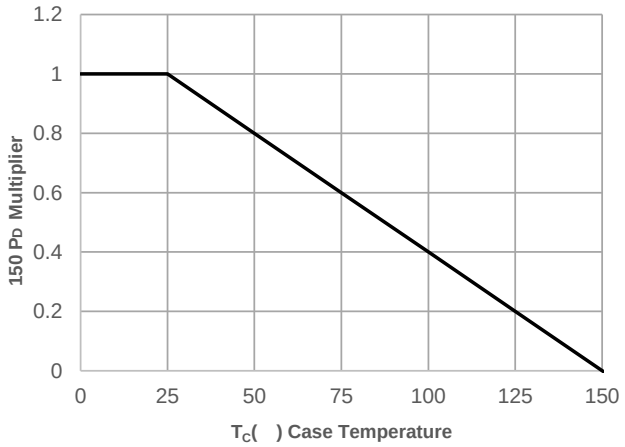
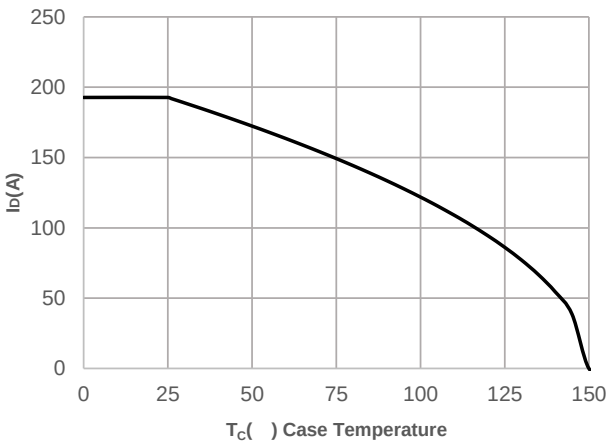



Figure 2: Current De-



## Test Circuit



**Figure 1: Gate Charge Test Circuit & Waveform**

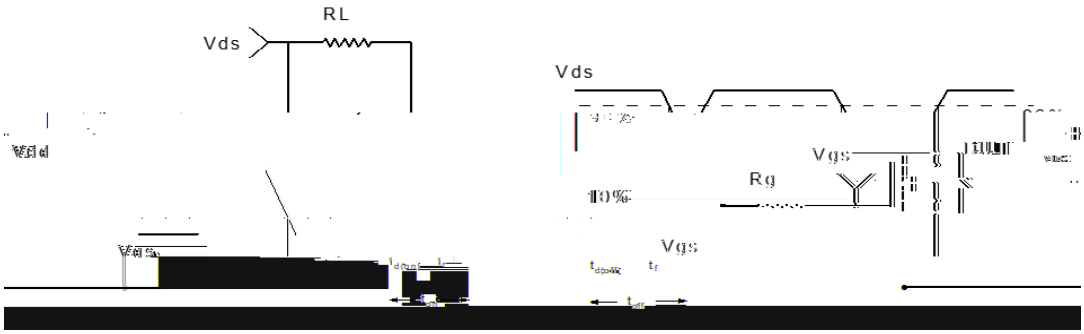



**Figure 2: Resistive Switching Test Circuit & Waveform**

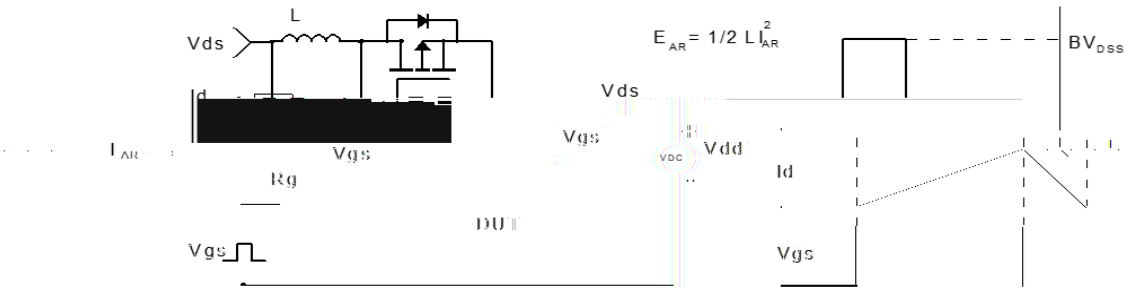



**Figure 3: Unclamped Inductive Switching Test Circuit& Waveform**

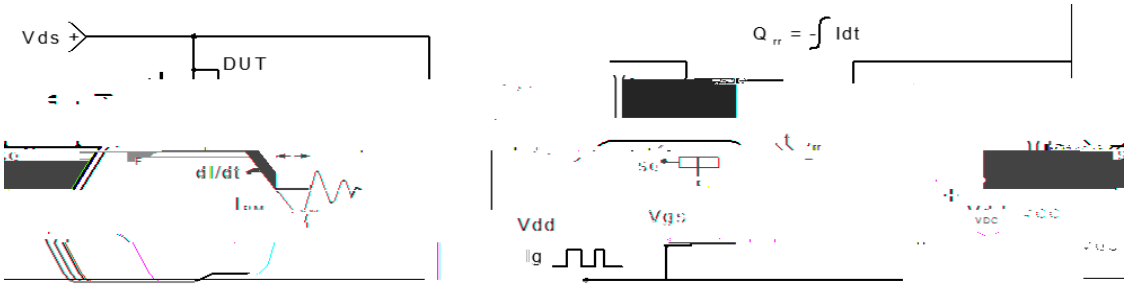
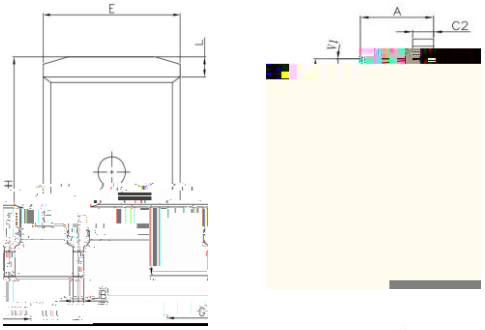



**Figure 4: Diode Recovery Test Circuit & Waveform**

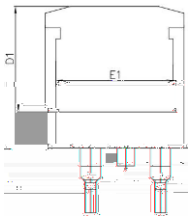

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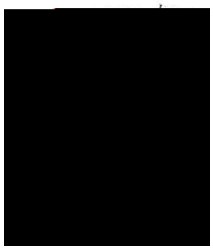
# Package Mechanical Data(TO-263 -3L)

**Package Outline**



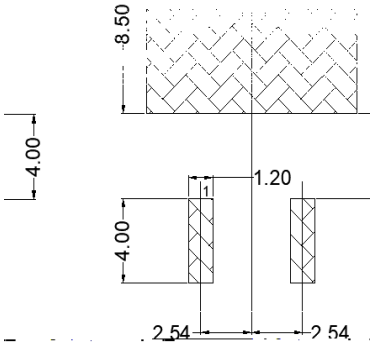






| SYMBOL | DIMENSIONS | | |
|---|---|---|---|
| | MIN | NOM | MAX |
| A | 4.2 | 4.45 | 4.7 |
| b | 0.7 | | 0.9 |
| b1 | 7.4 | 8 | 8.4 |
| c | 0.38 | 0.46 | 0.53 |
| c2 | 1.24 | 1.3 | 1.36 |
| D | 8.9 | 9.2 | 9.5 |
| D1 | 7.4 | 7.65 | 7.9 |
| E | 9.8 | 10 | 10.2 |
| E1 | 6.8 | 8.6 | 8.8 |
| e | 5.08 | 5.08 | 5.28 |
| H | 14.7 | 15 | 15.3 |
| L | 2.17 | 2.37 | 2.57 |
| L1 | 1.4 | 1.6 | 1.8 |
| L2 | 1.27 | 1.4 | 1.65 |
| θ | 0° | | 8° |

Land Pattern
(Only for Reference)




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