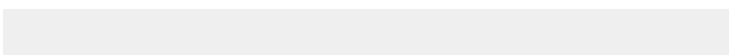


General Description



Absolute Maximum Ratings

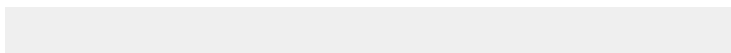
| Parameter | Symbol | Value | Unit |
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Thermal Characteristics

| Parameter | Symbol | Value | Unit |
|-----------|--------|-------|------|
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Electrical Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test condition |
|-----------|--------|------|------|------|------|----------------|
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Dynamic Characteristics

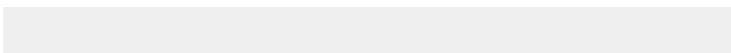
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test condition |
|-----------|--------|------|------|------|------|----------------|
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Gate Charge Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test condition |
|-----------|--------|------|------|------|------|----------------|
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Body Diode Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test condition |
|-----------|--------|------|------|------|------|----------------|
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Note


Electrical Characteristics Diagrams

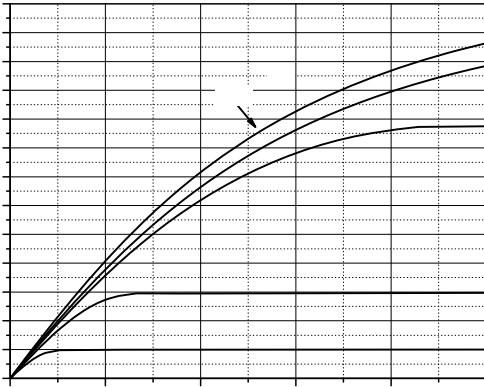


Figure 1. Typ. output characteristics

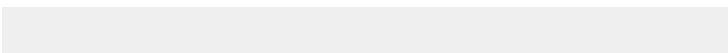
Figure 2. Typ. transfer characteristics

Figure 3. Typ. capacitances

Figure 4. Typ. gate charge

Figure 5. Drain-source breakdown voltage

Figure 6. Drain-source on-state resistance



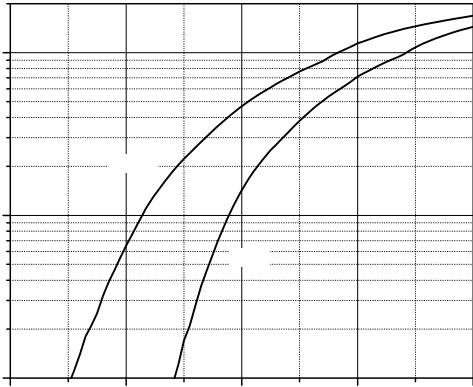


Figure 7. Forward characteristic of body diode

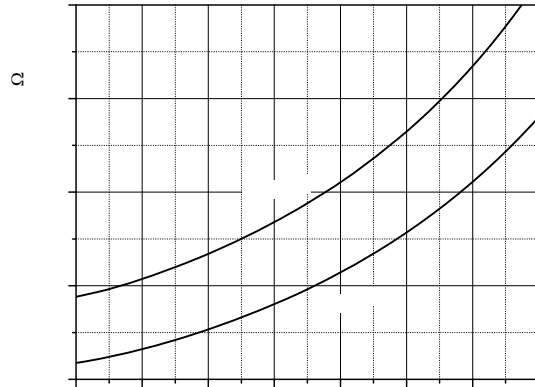


Figure 8. Drain-source on-state resistance

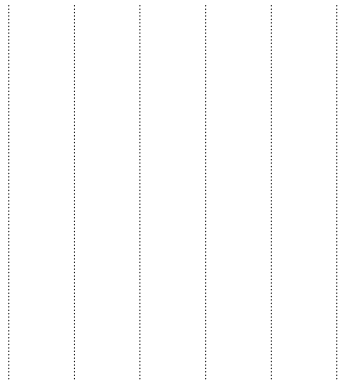


Figure 9. Drain current

Figure 10. Safe operation area $T_C=25\text{ }^\circ\text{C}$

Test circuits and waveforms

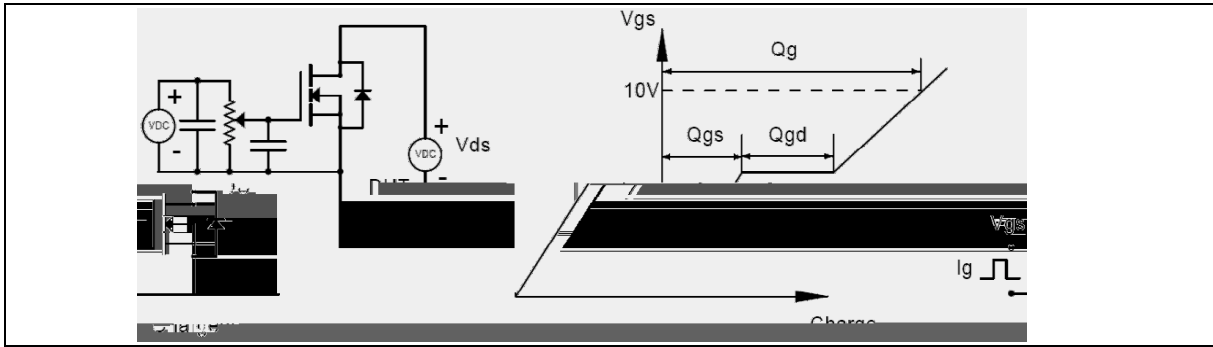


Figure 1. Gate charge test circuit & waveform

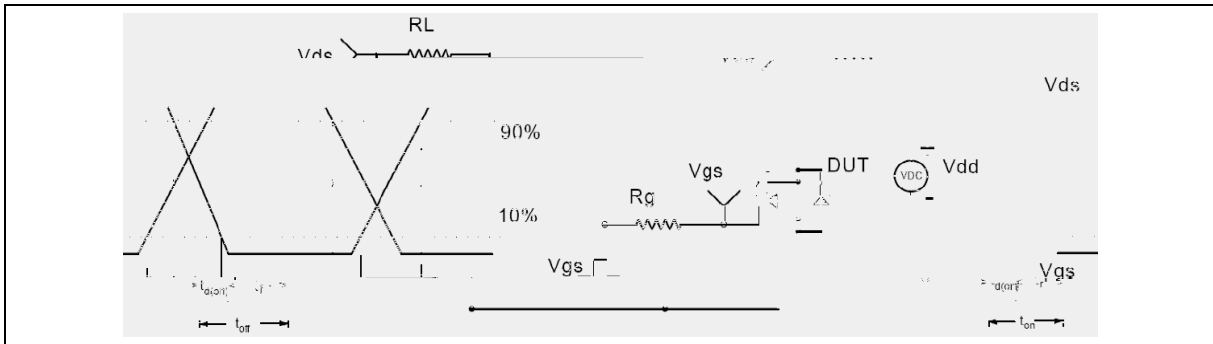


Figure 2. Switching time test circuit & waveforms

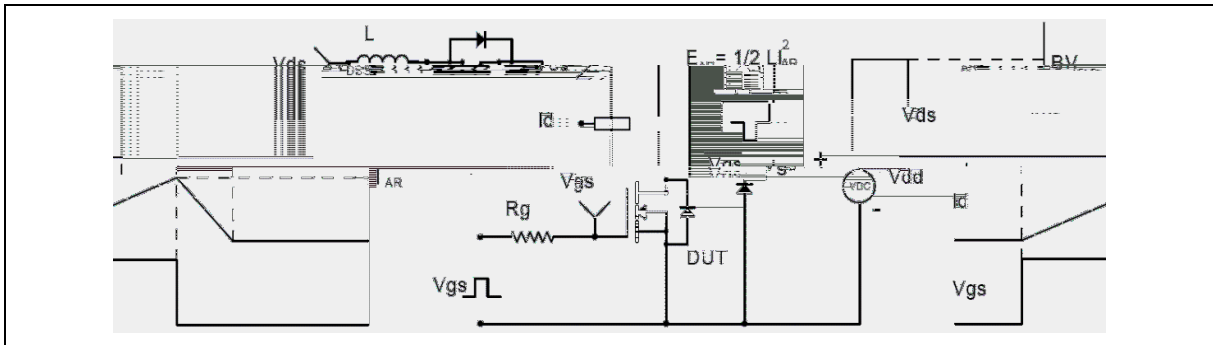


Figure 3. Unclamped inductive switching (UIS) test circuit & waveforms

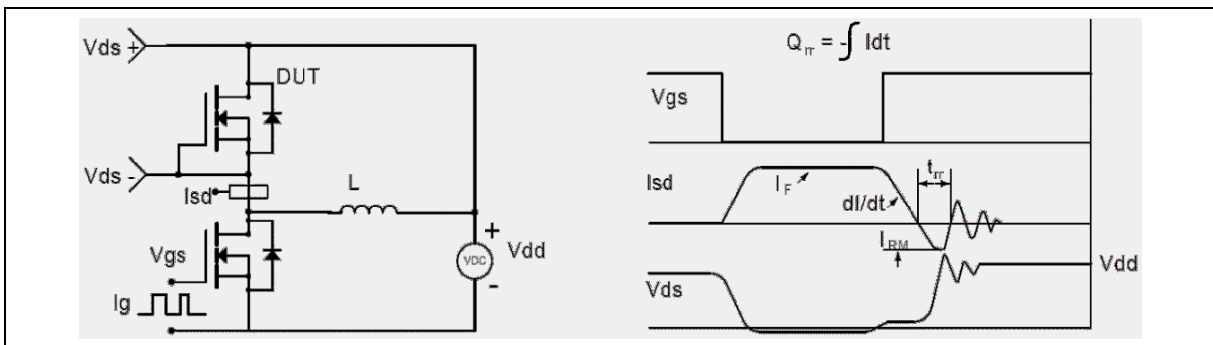
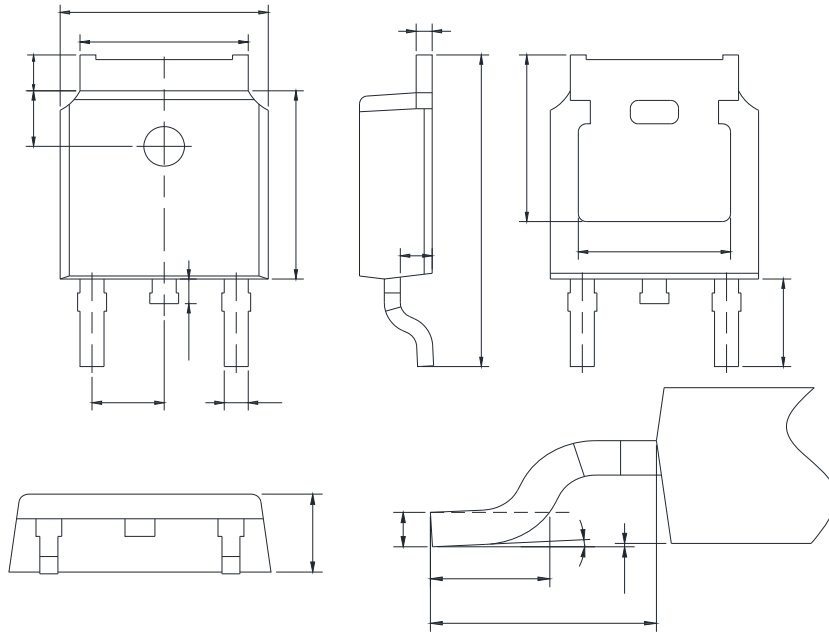


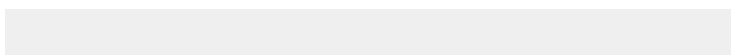
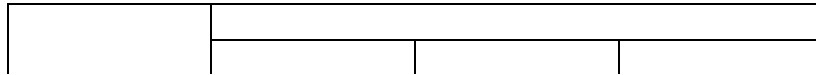
Figure 4. Diode reverse recovery test circuit & waveforms

Package Information



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Package Information



Ordering Information

| Package Type | Units/ Reel | Reels / Inner Box | Units/ Inner Box | Inner Box/ Carton Box | Units/ Carton Box |
|--------------|-------------|-------------------|------------------|-----------------------|-------------------|
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Product Information

| Product | Package | Pb Free | RoHS | Halogen Free |
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