



DGW75N65CTL1

RoHS
COMPLIANT

Electrical Characteristics of the IGBT

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---------------|--------|------------|------|------|------|------|
| Static | | | | | | |
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| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|----------------|--------|------------|------|------|------|------|
| Dynamic | | | | | | |
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Switching Characteristic, Inductive Load

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|--|--------|------------|------|------|------|------|
| Dynamic , at T_j= 25 | | | | | | |
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| Dynamic , at T_j= 125 | | | | | | |
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| Dynamic , at T_j= 150 | | | | | | |
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| | | | | | n |)j |



Electrical Characteristics of the Diode

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|--|--------|------------|------|------|------|------|
| Dynamic , at T_j= 25 | | | | | | |
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| Dynamic , at T_j= 125 | | | | | | |
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| Dynamic , at T_j= 150 | | | | | | |
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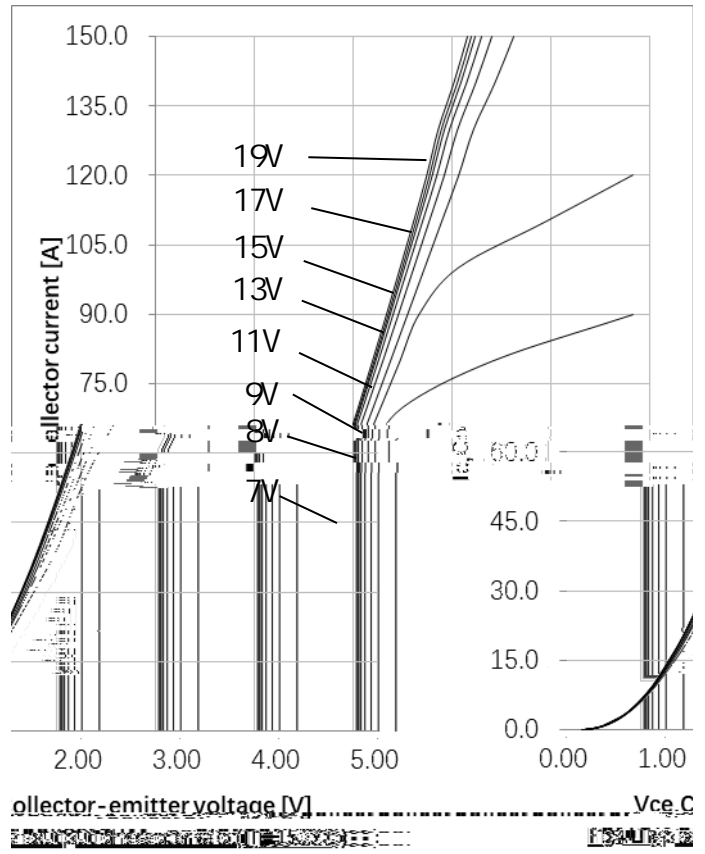
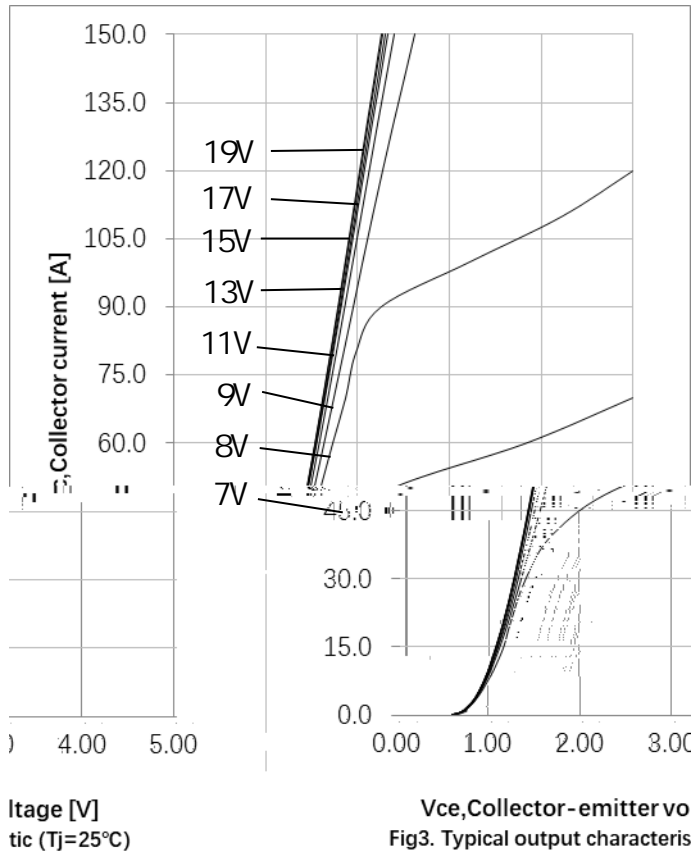
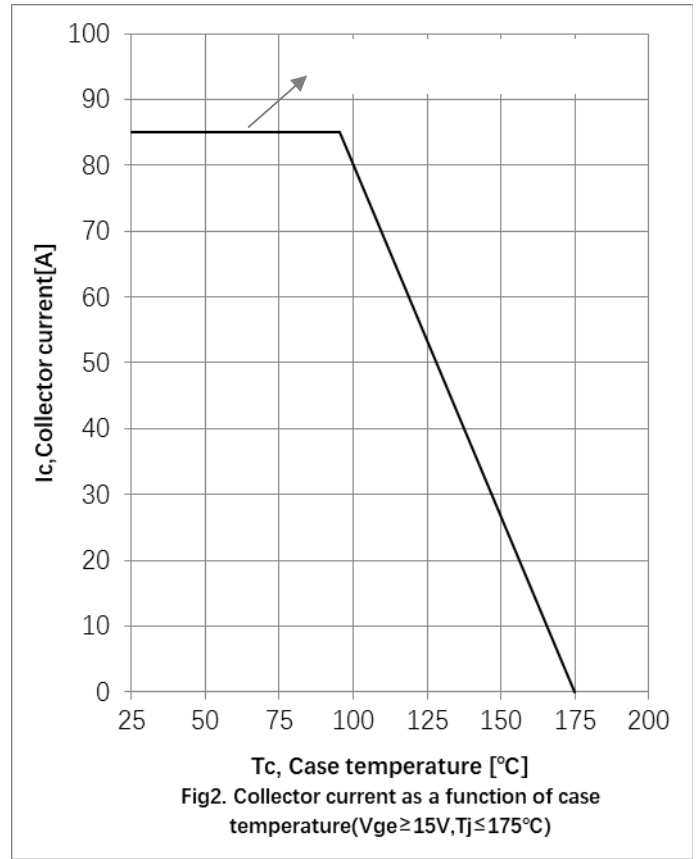
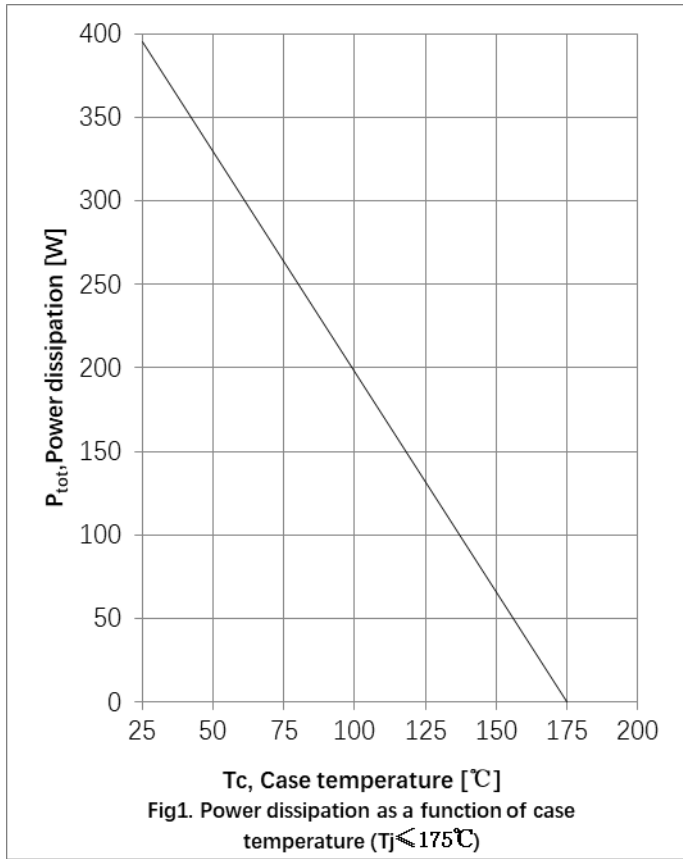
Thermal Resistance

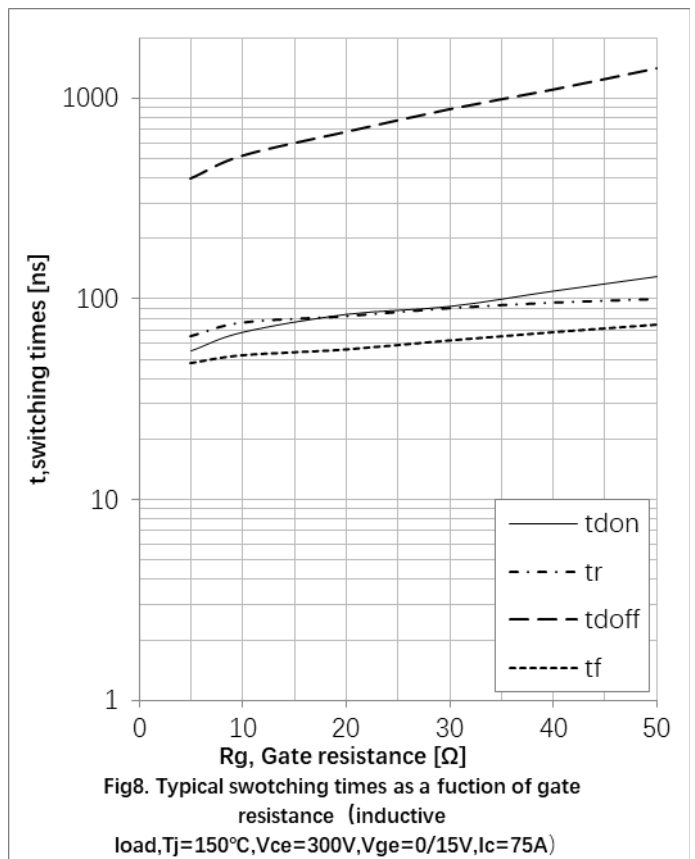
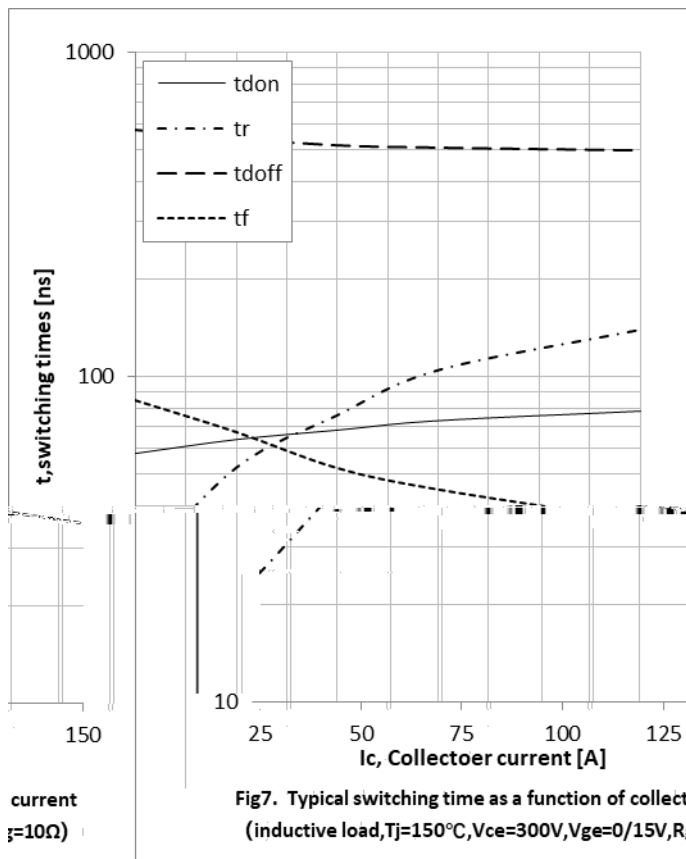
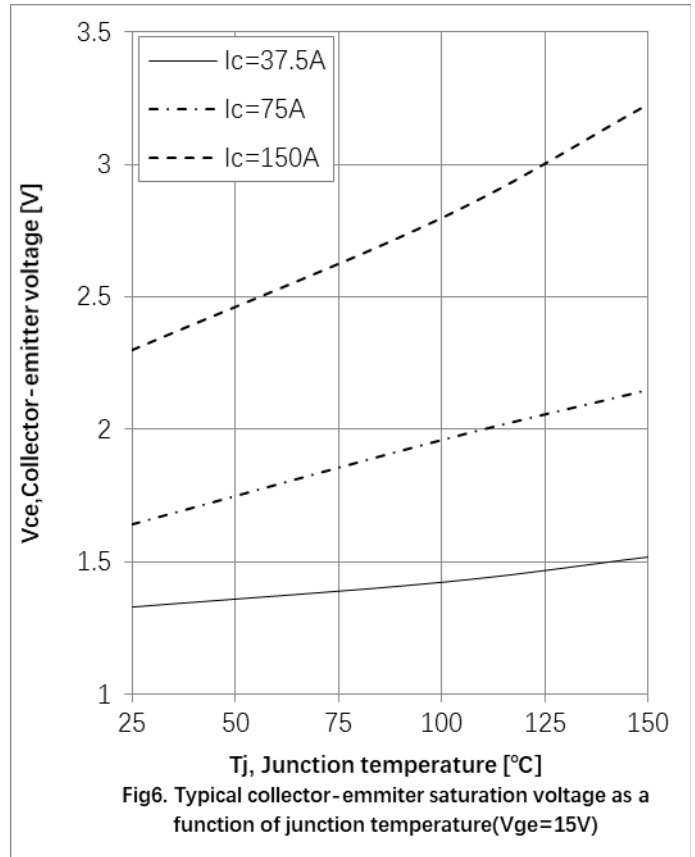
| Parameter | Symbol | Max. Value | Unit |
|-----------|--------|------------|------|
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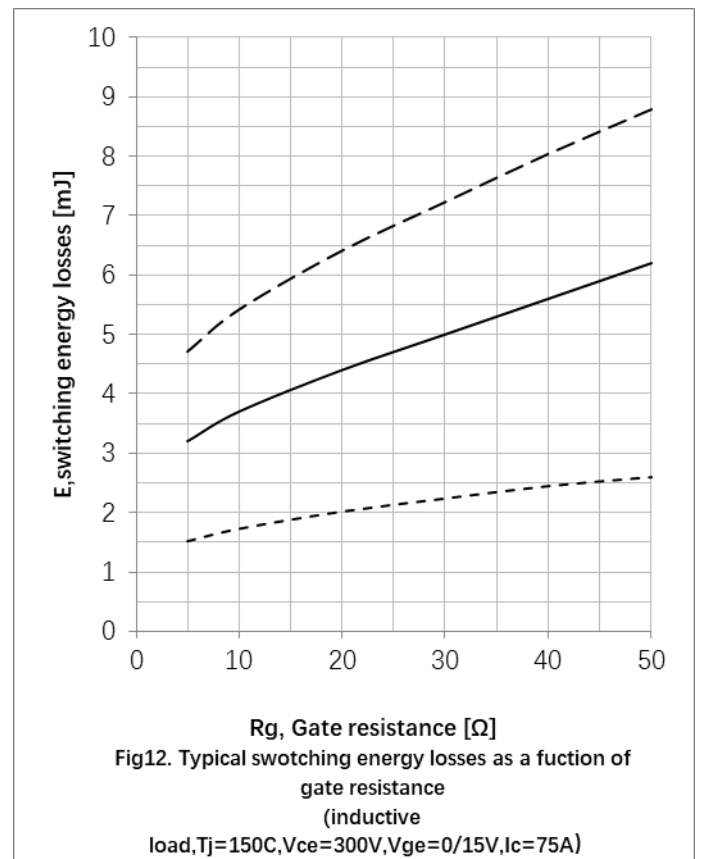
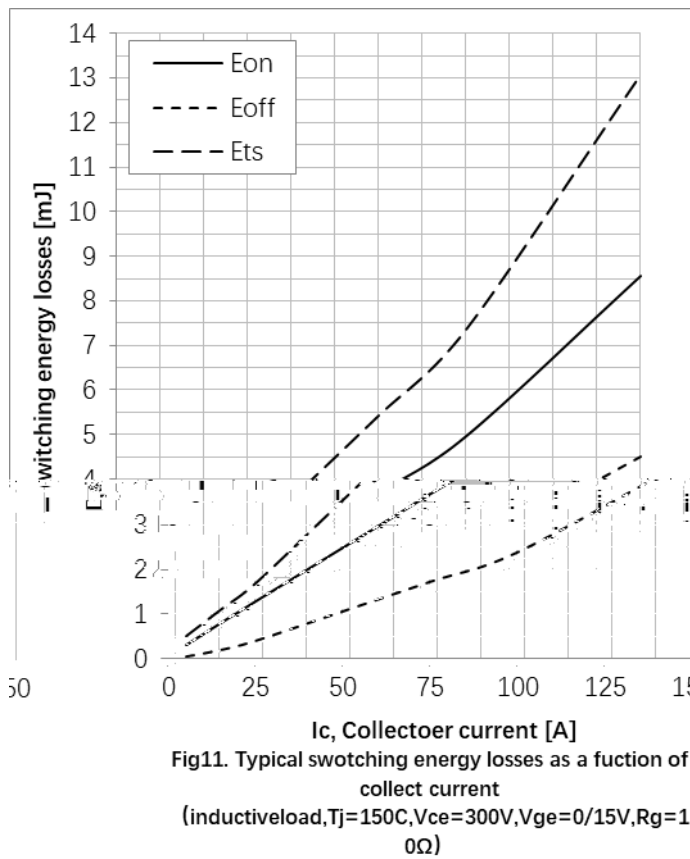
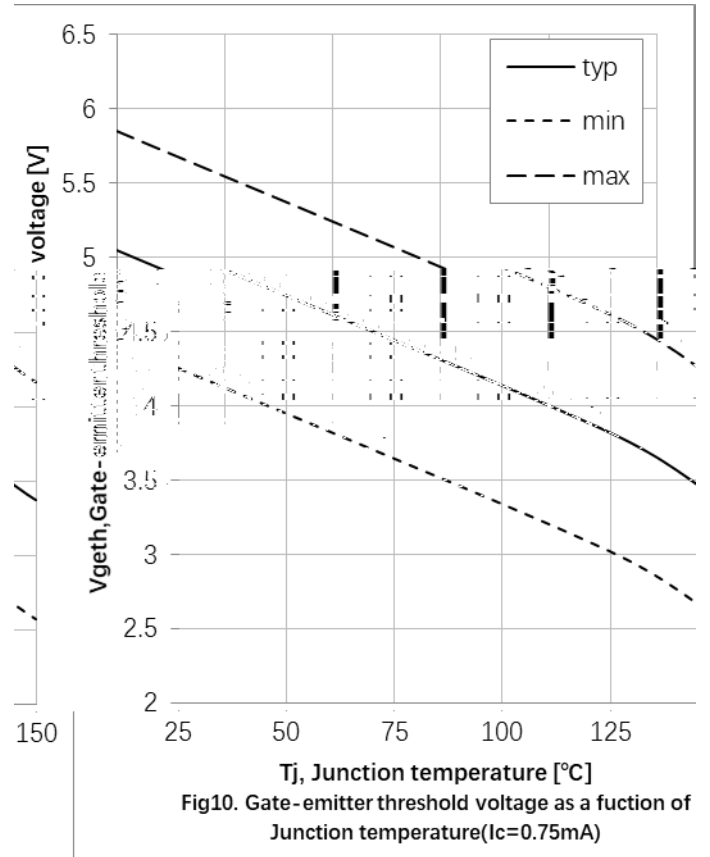
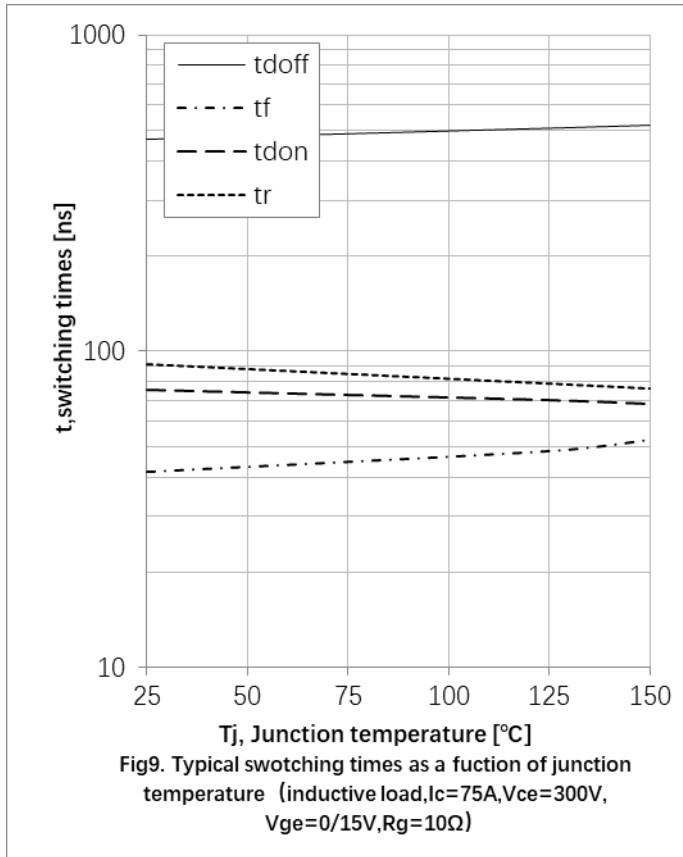


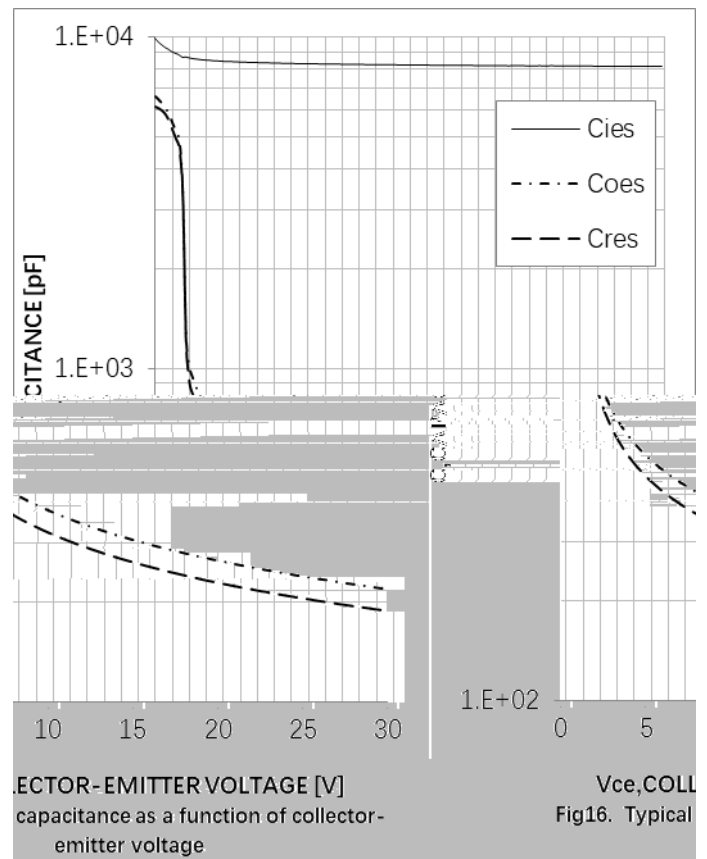
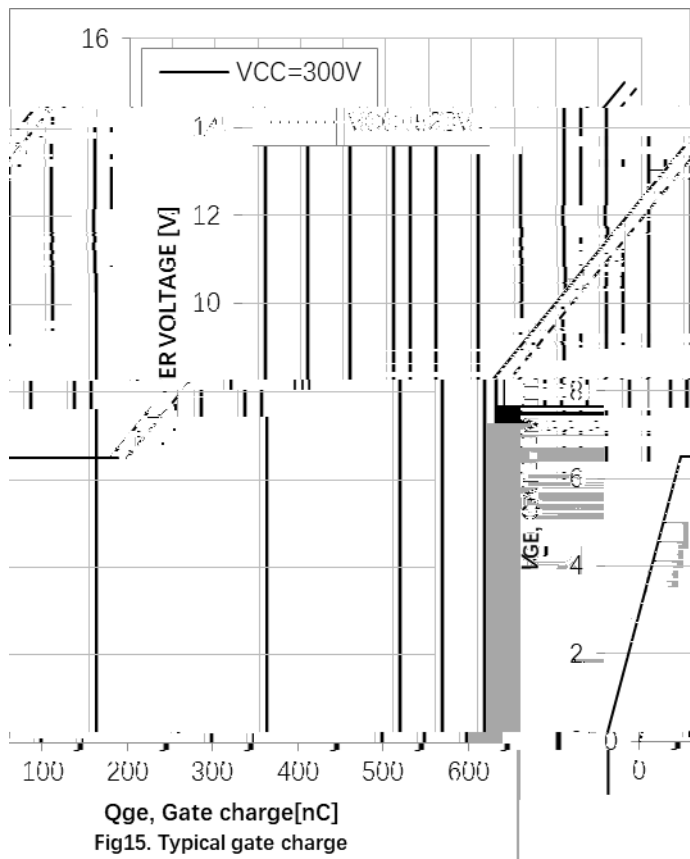
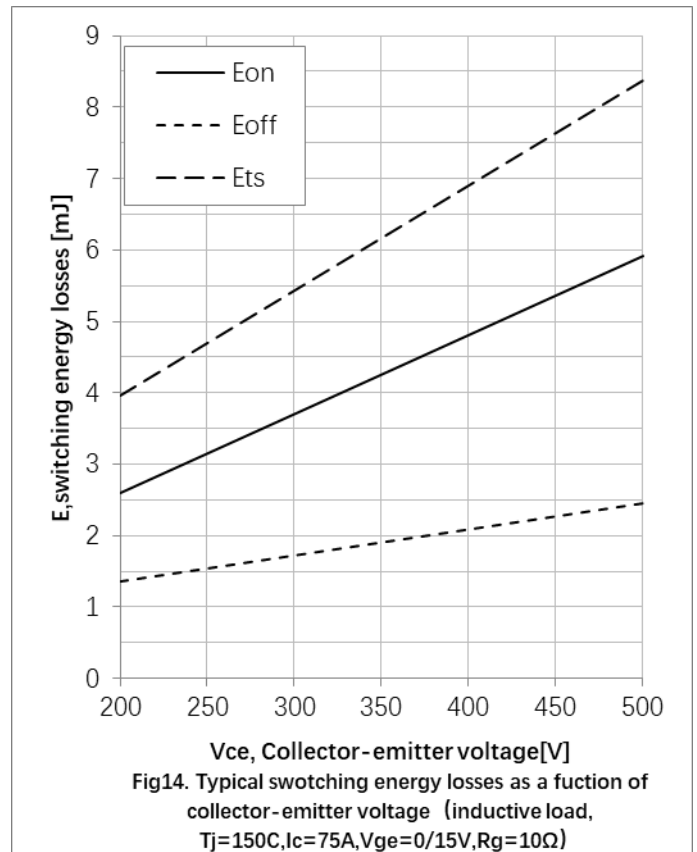
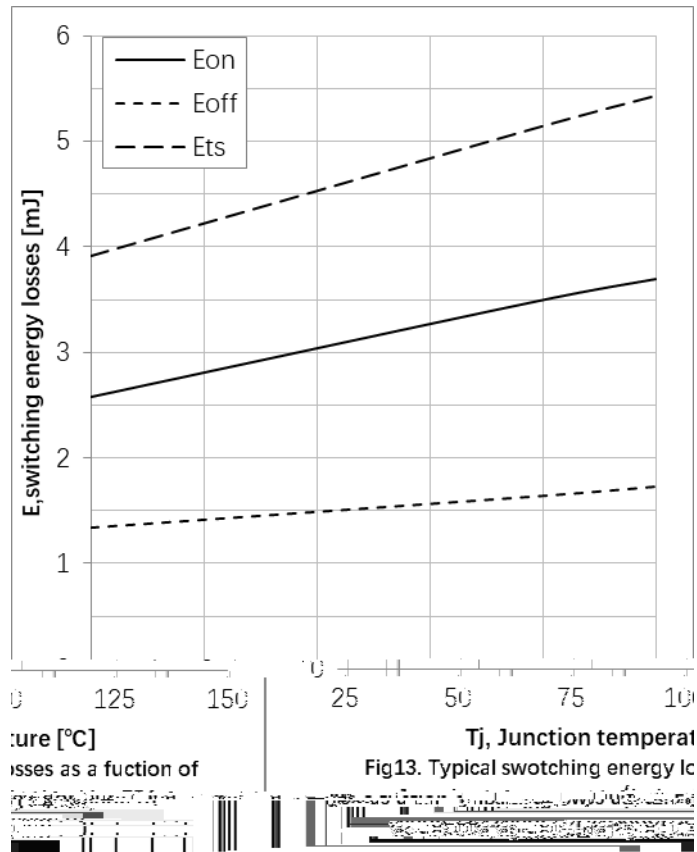
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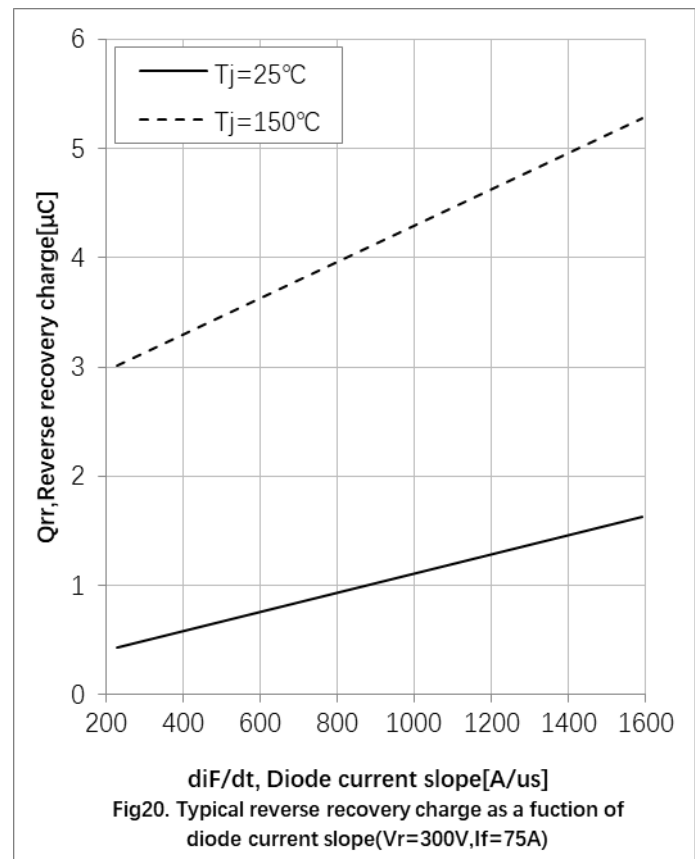
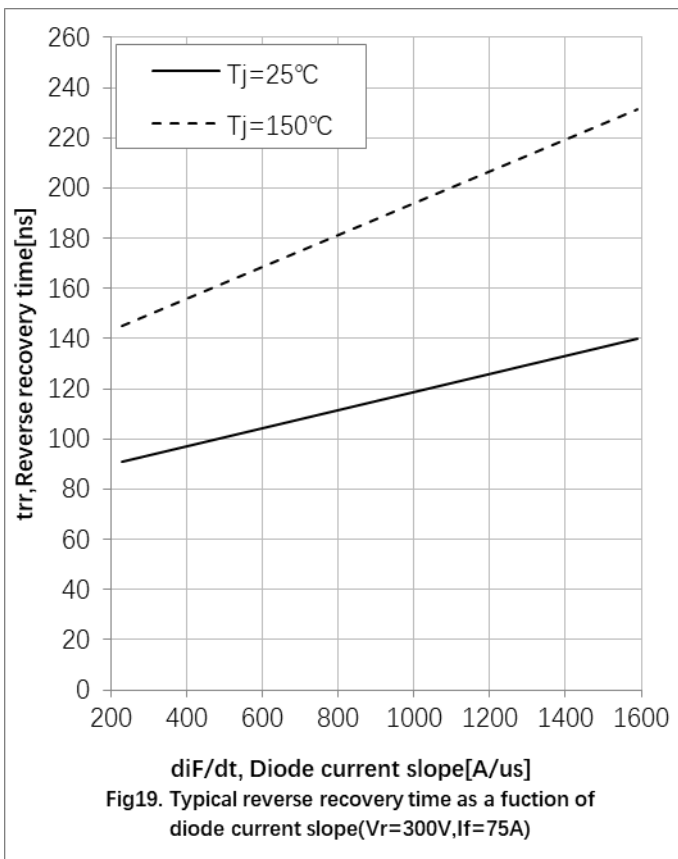
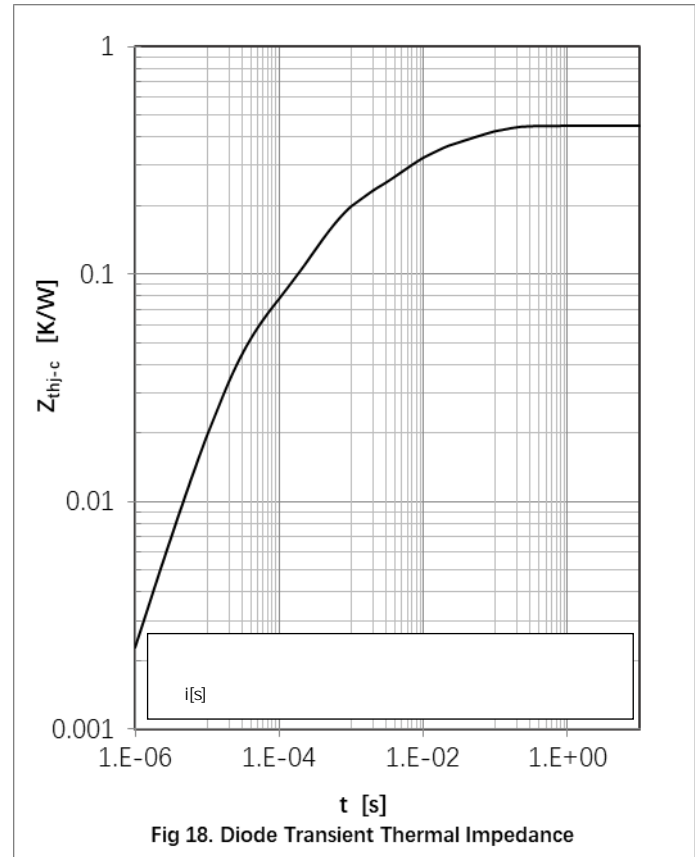
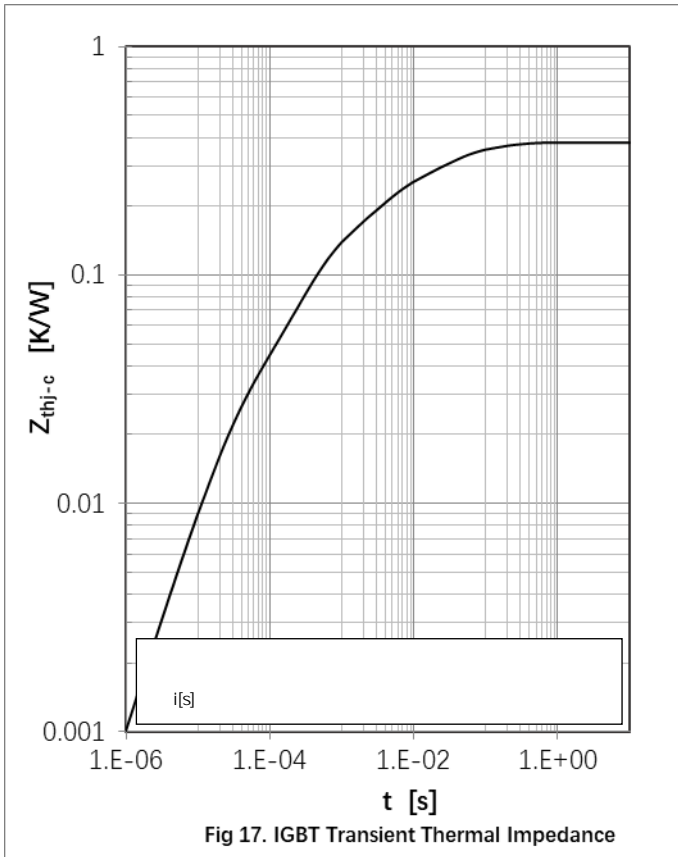
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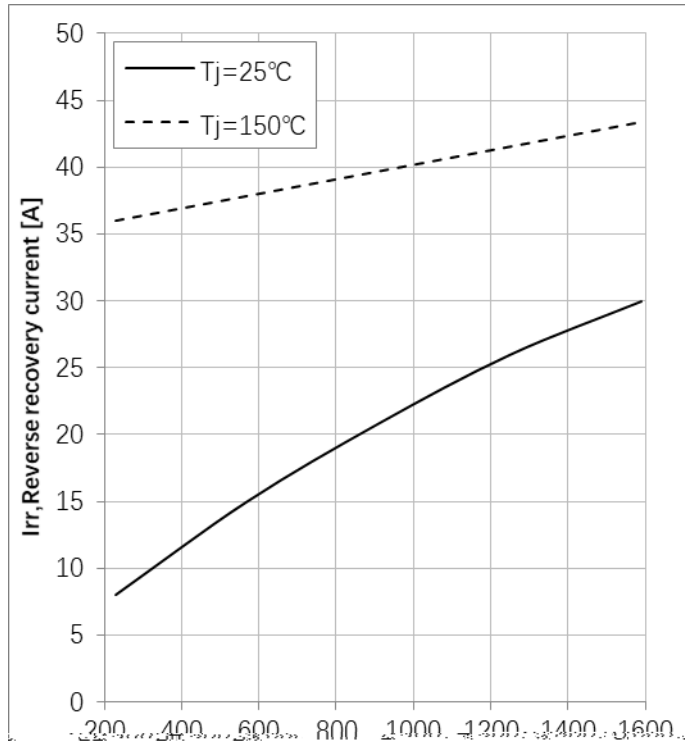


Fig21. Typical reverse recovery current as a function of diode current slope ($V_r = 300\text{V}, I_f = 75\text{A}$).

Fig21. Typical reverse recovery current as a function of diode current slope ($V_r = 300\text{V}, I_f = 75\text{A}$).

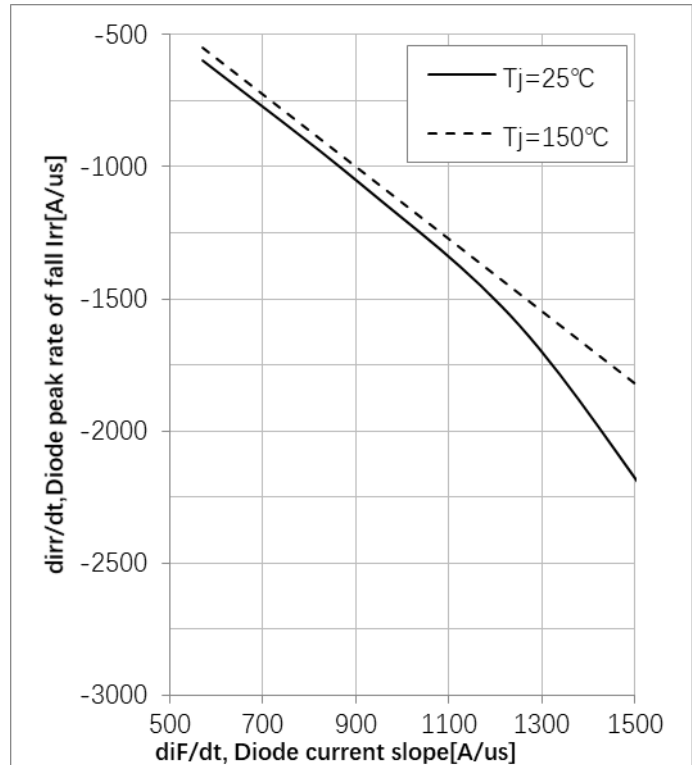


Fig22. Typical diode peak rate of fall of reverse recovery current as a function of diode current slope ($V_r = 300\text{V}, I_f = 75\text{A}$).

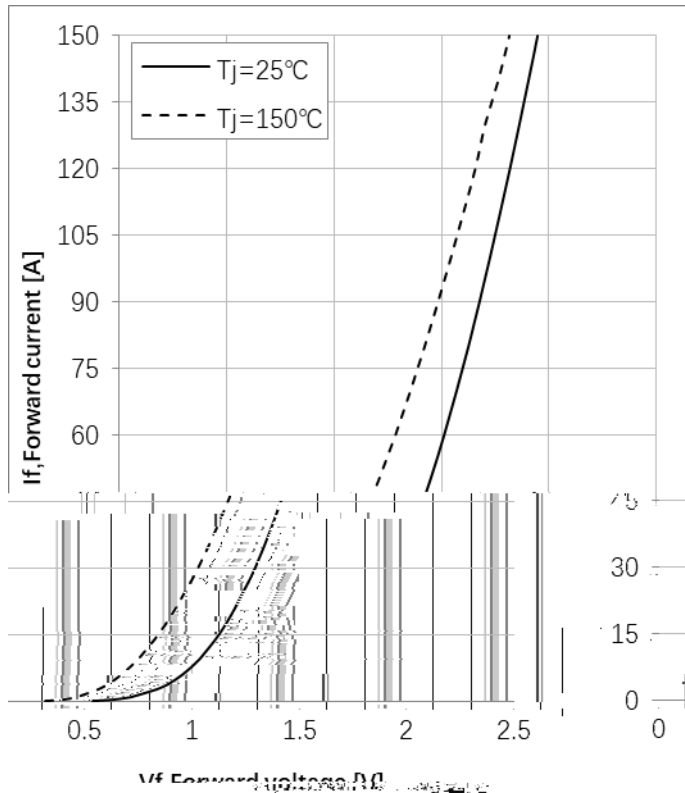


Fig23. Diode forward current as a function of forward voltage.

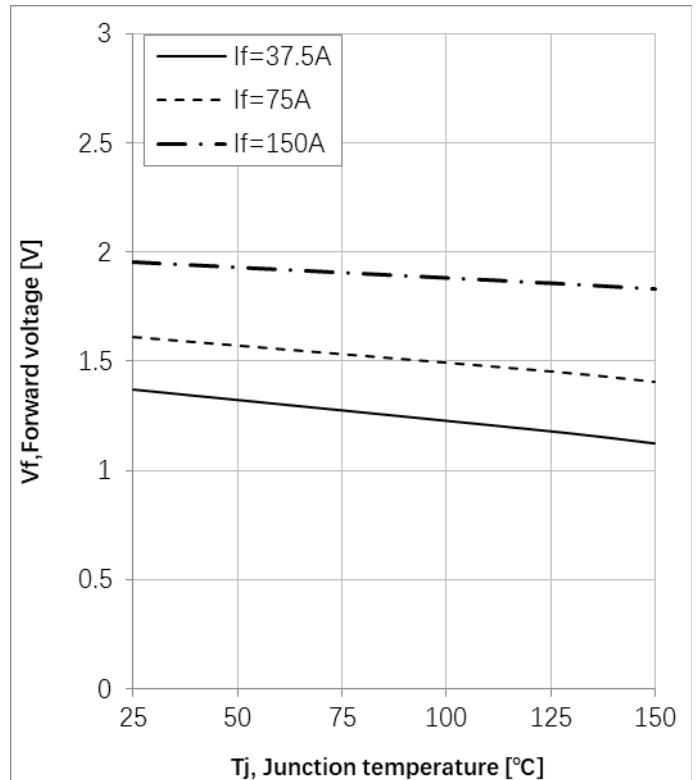


Fig24. diode forward voltage as a function of junction temperature

