



IGBT Discrete



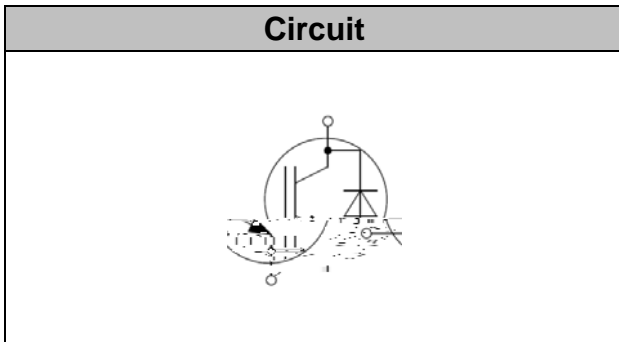
V_{CE}	650	V
I_C	75	A
$V_{CE(SAT)}$ $I_C=75A$	1.65	V

Applications

- .
- .
- .

Features

- .
- .
- .
- .



Maximum Ratings

Parameter	Symbol	Value	Unit



DGW75N65CTL1

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Electrical Characteristics of the IGBT ()::

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Static						

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic						



Switching Characteristic, Inductive Load

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic , at T_J= 25						
Dynamic , at T_J= 125						
Dynamic , at T_J= 150						

Electrical Characteristics of the Diode ()::

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
	Static					

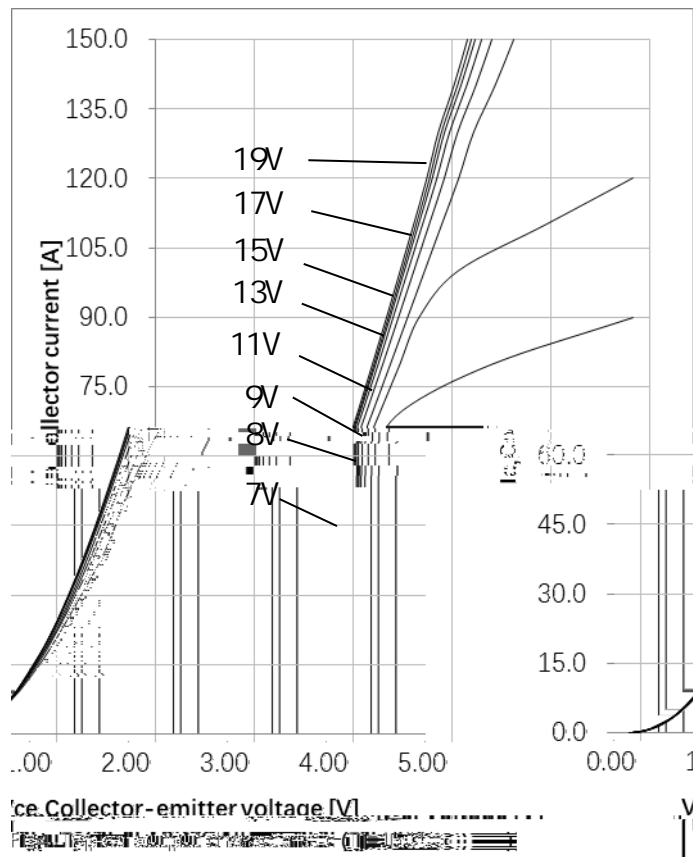
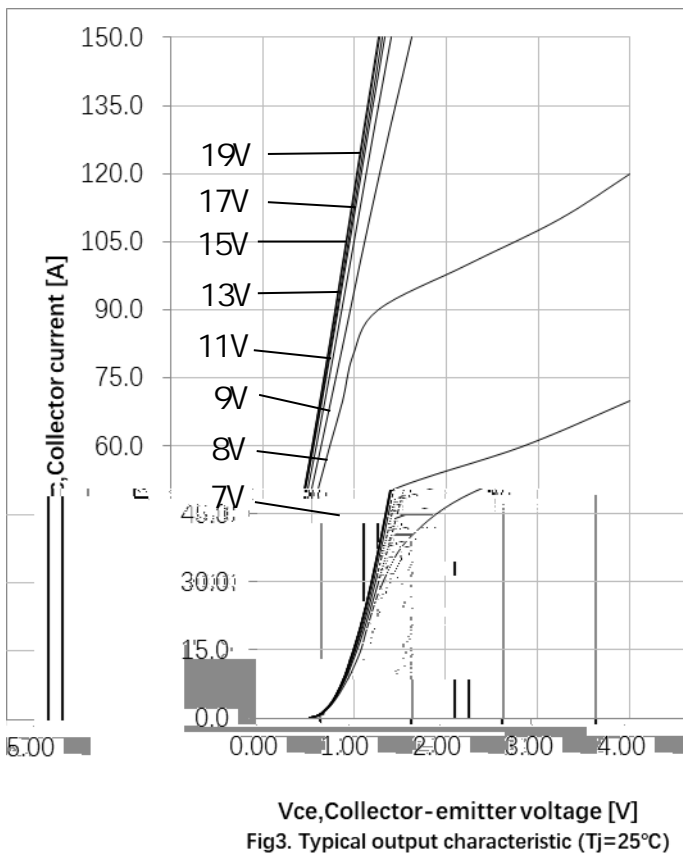
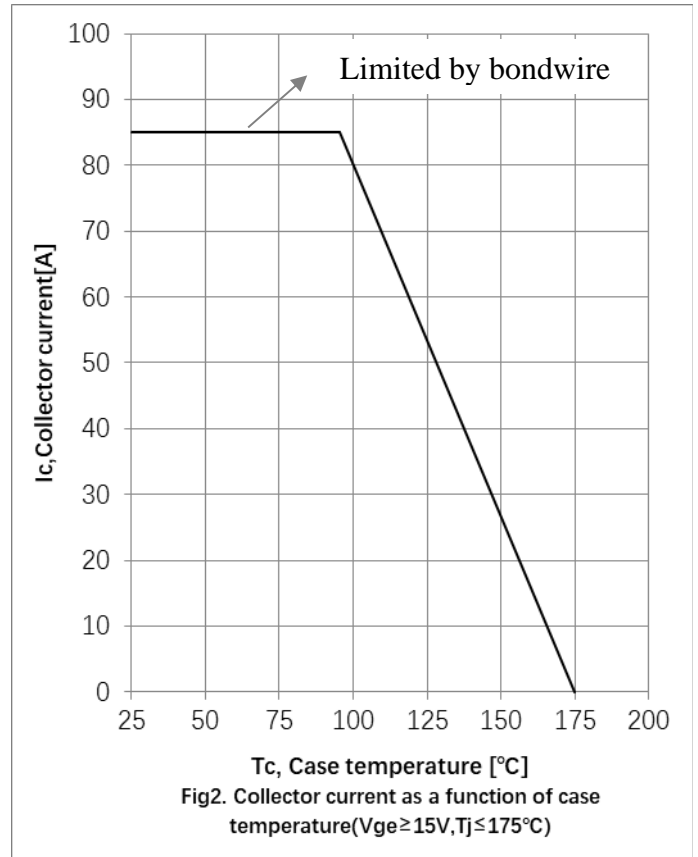
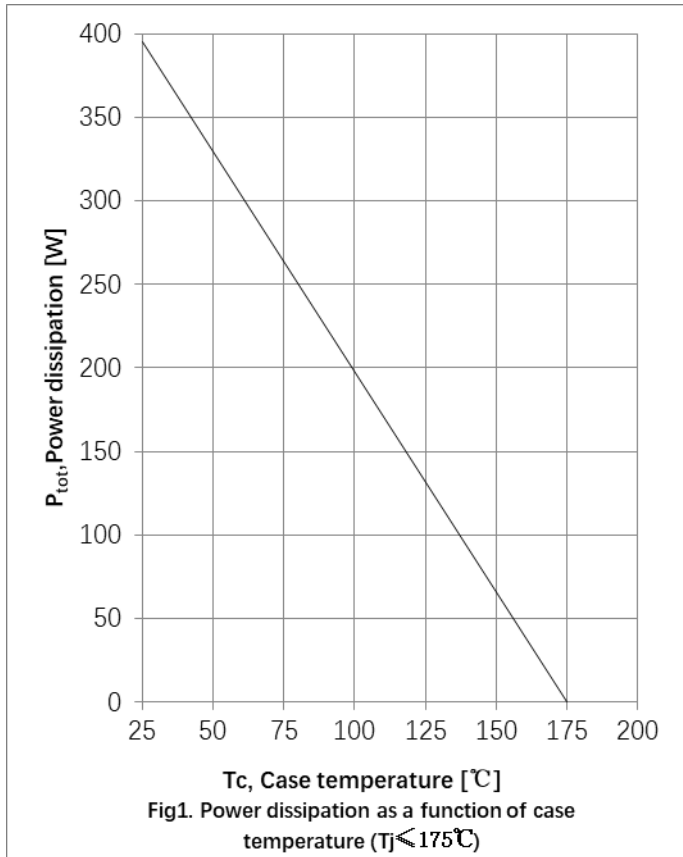


Electrical Characteristics of the Diode

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic , at T _j = 25						
Dynamic , at T _j = 125						
Dynamic , at T _j = 150						

Thermal Resistance

Parameter	Symbol	Max. Value	Unit



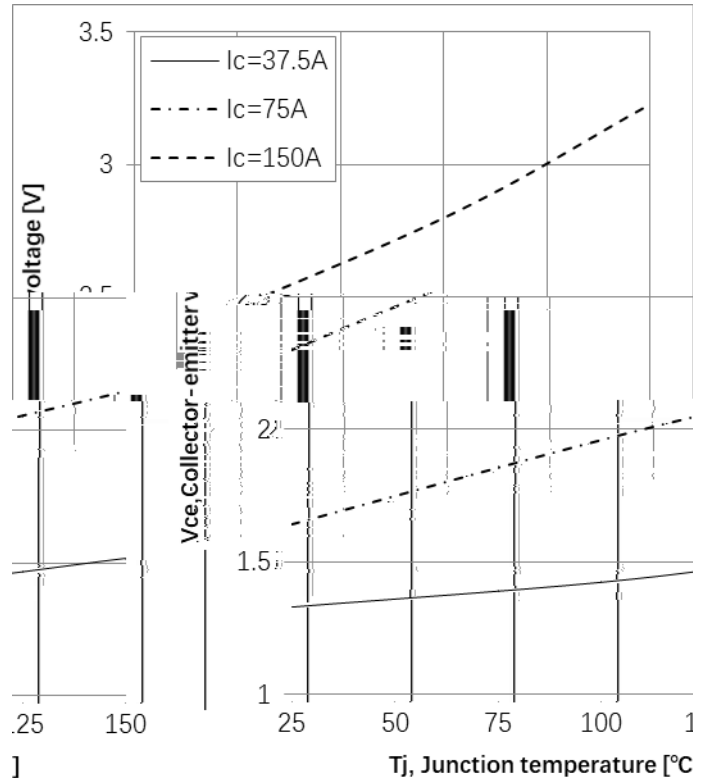
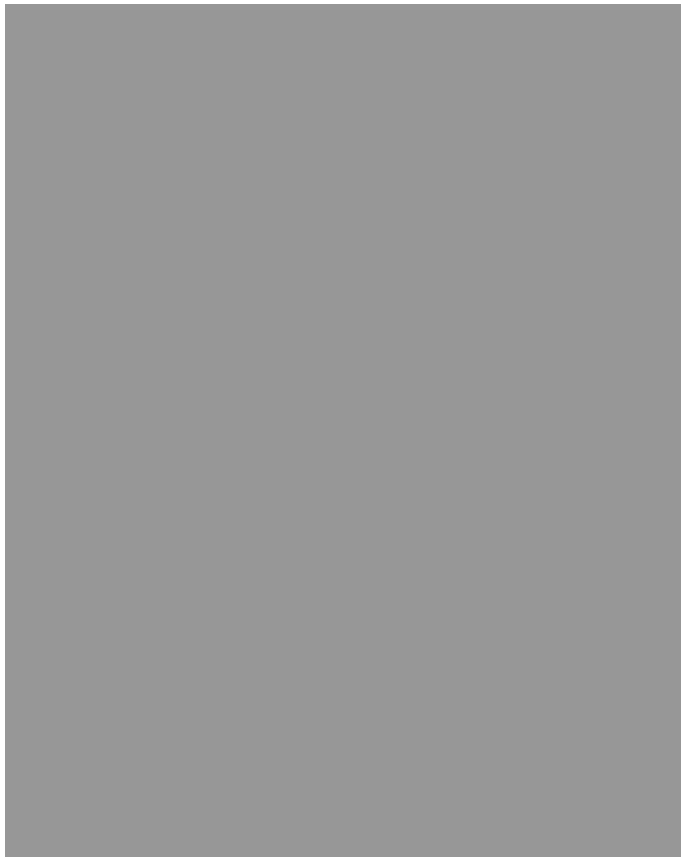


Fig6. Typical collector-emitter saturation voltage as a function of junction temperature ($V_{ge}=15V$)

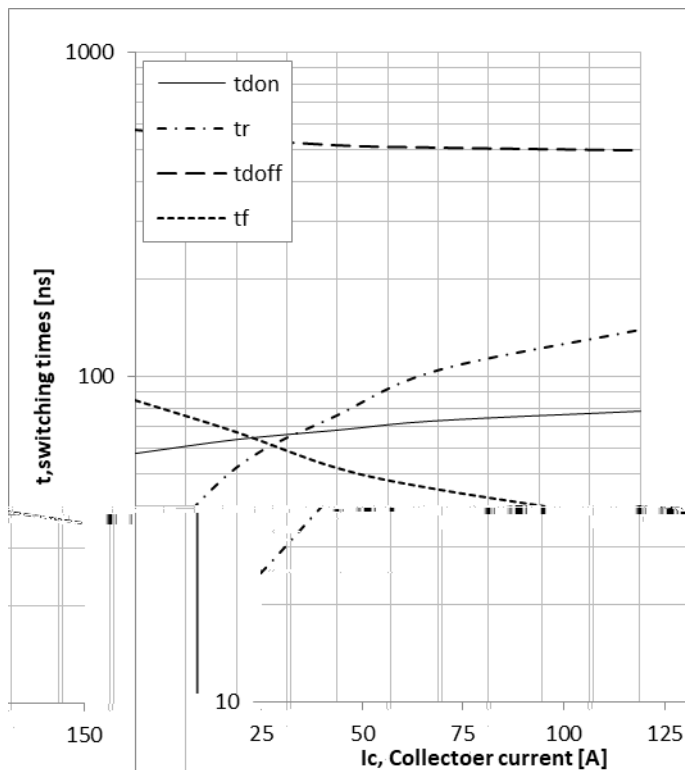


Fig7. Typical switching time as a function of collector current (inductive load, $T_j=150^\circ C$, $V_{ce}=300V$, $V_{ge}=0/15V$, $R_g=10\Omega$)

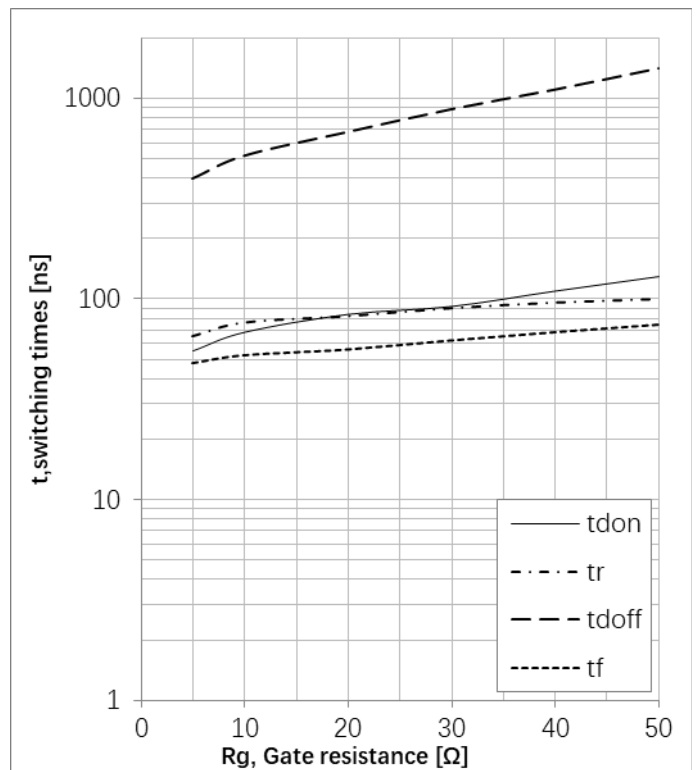
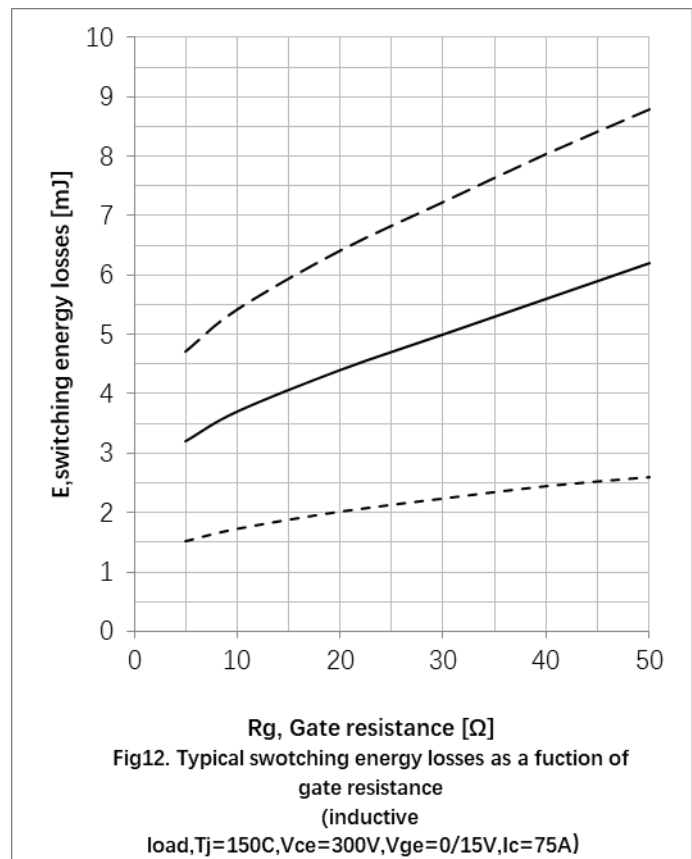
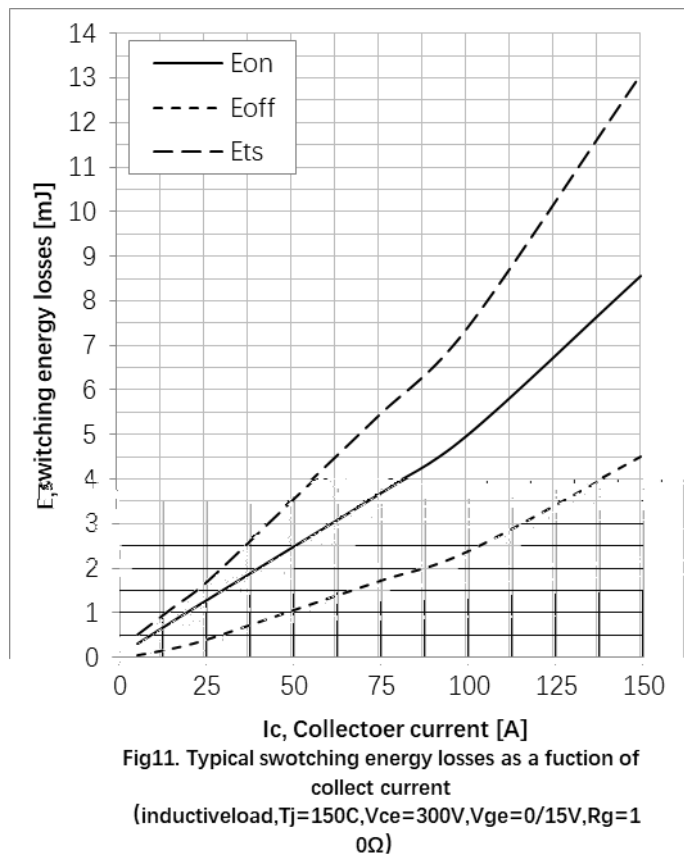
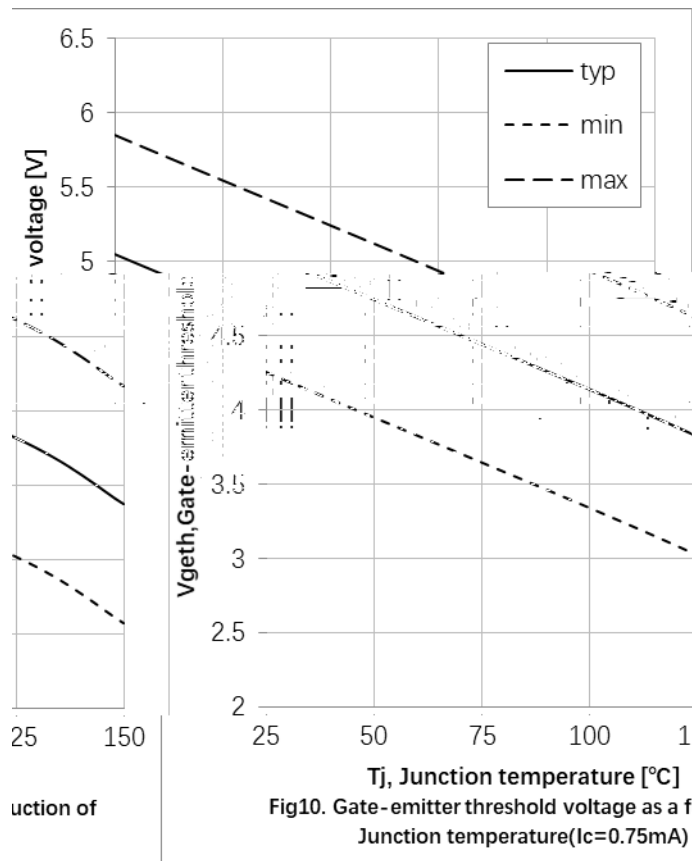
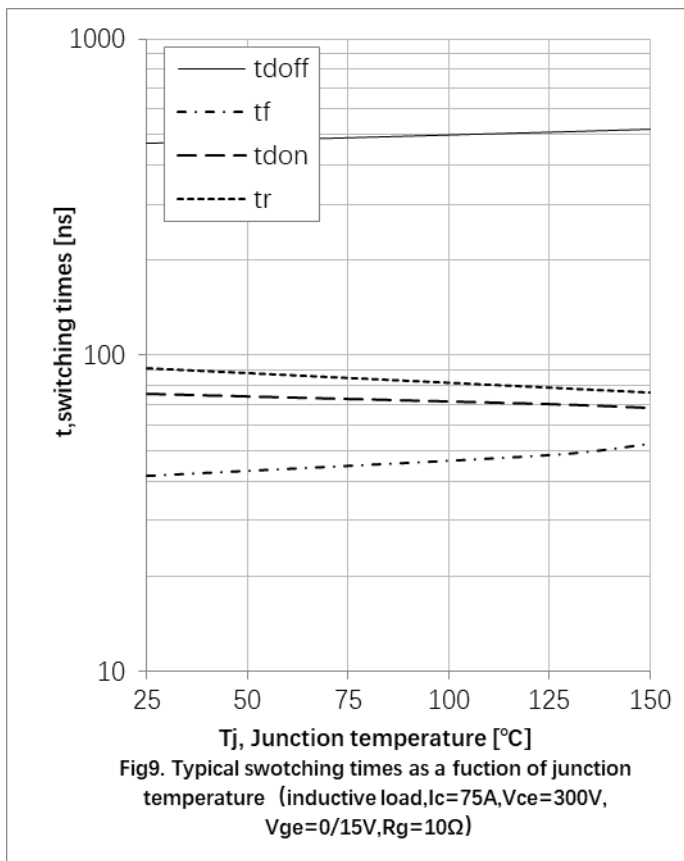


Fig8. Typical switching times as a function of gate resistance (inductive load, $T_j=150^\circ C$, $V_{ce}=300V$, $V_{ge}=0/15V$, $I_c=75A$)



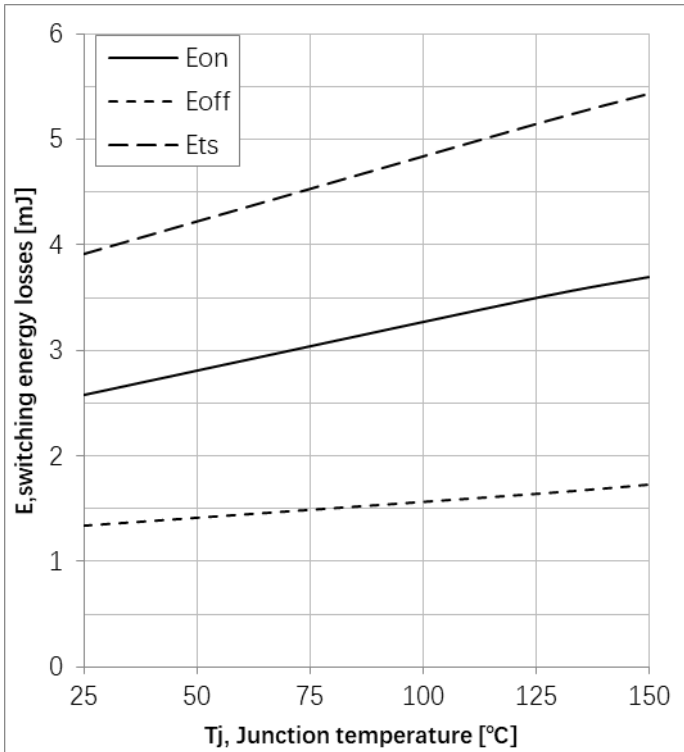


Fig13. Typical switching energy losses as a function of

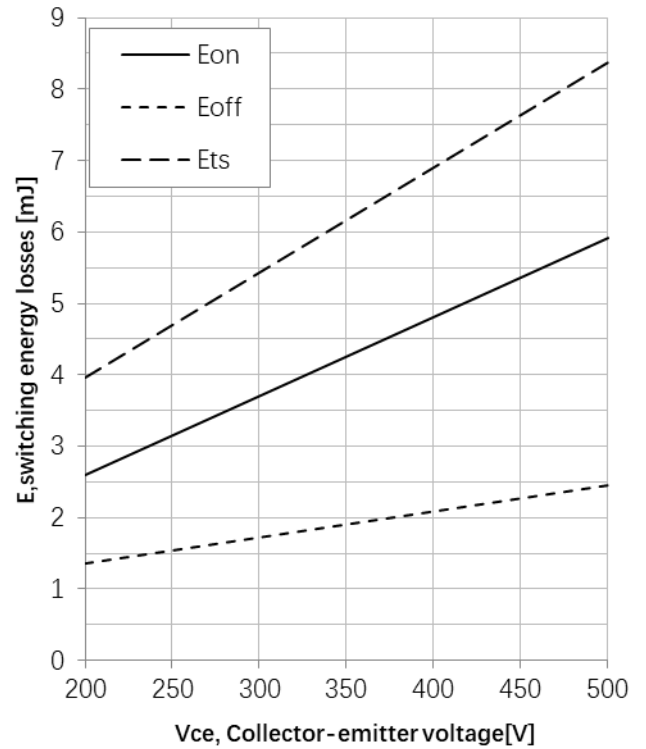


Fig14. Typical switching energy losses as a function of collector-emitter voltage (inductive load, T_j=150°C, I_c=75A, V_{ge}=0/15V, R_g=10Ω)

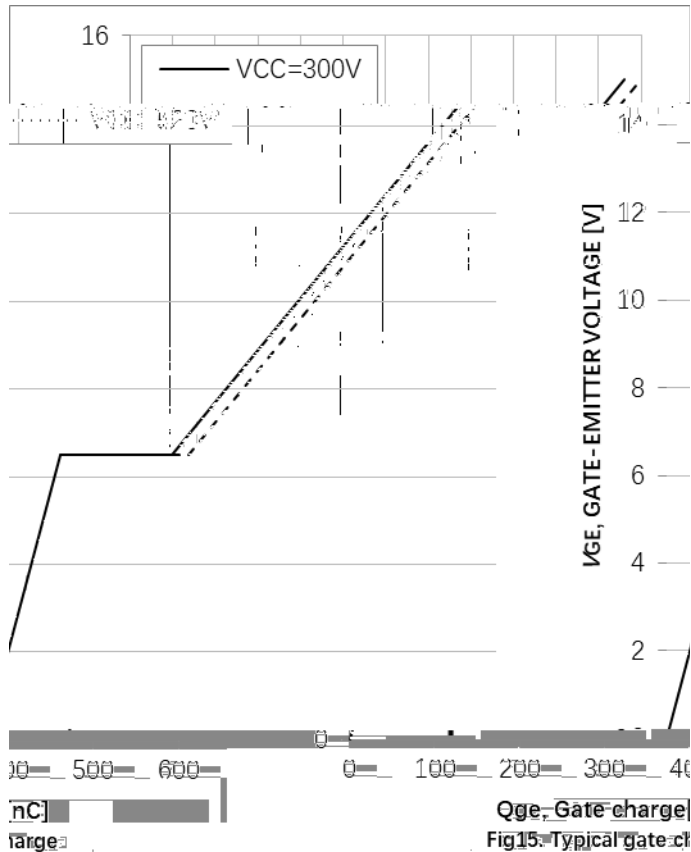


Fig15. Typical gate-charge

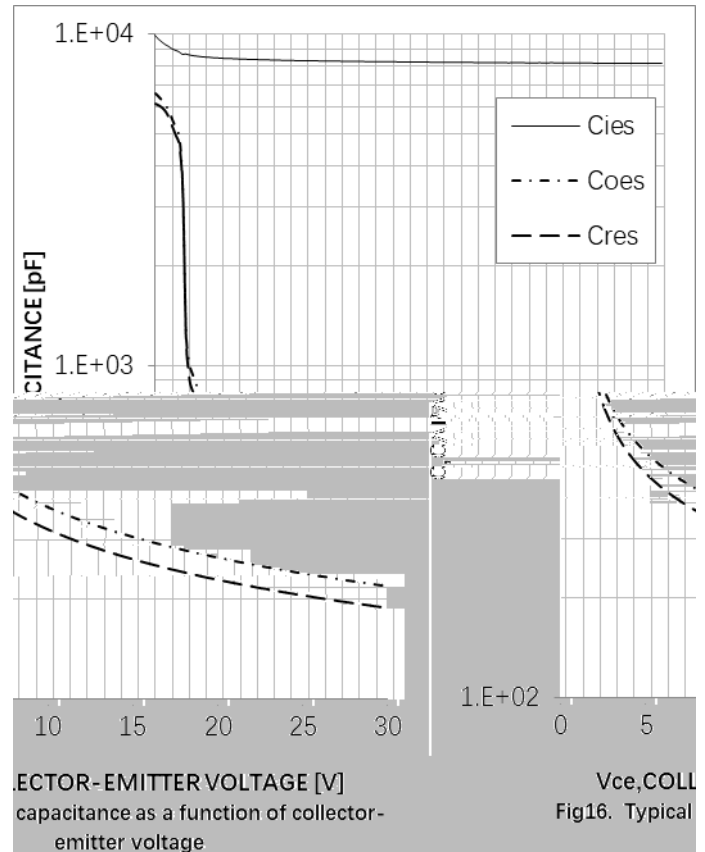
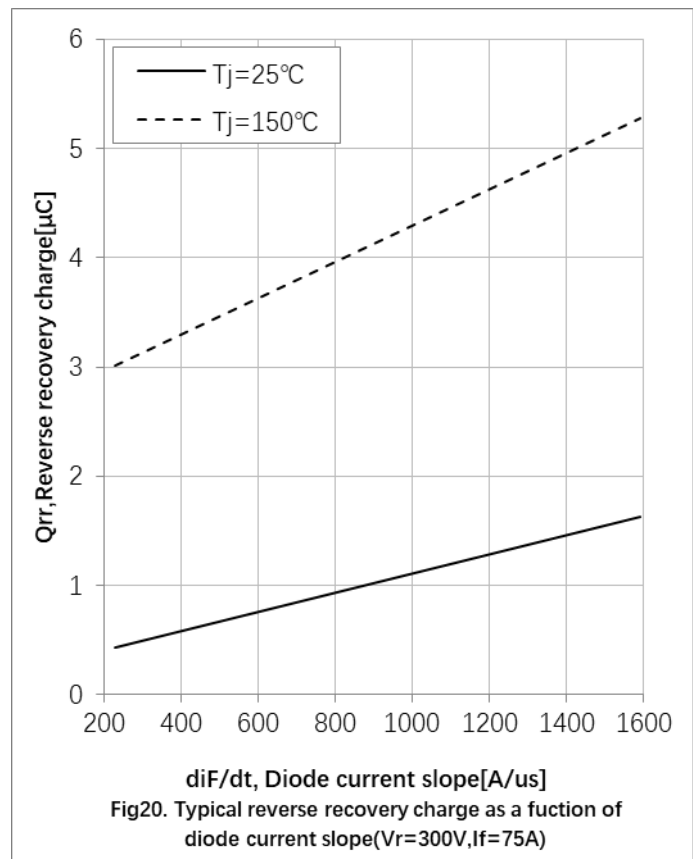
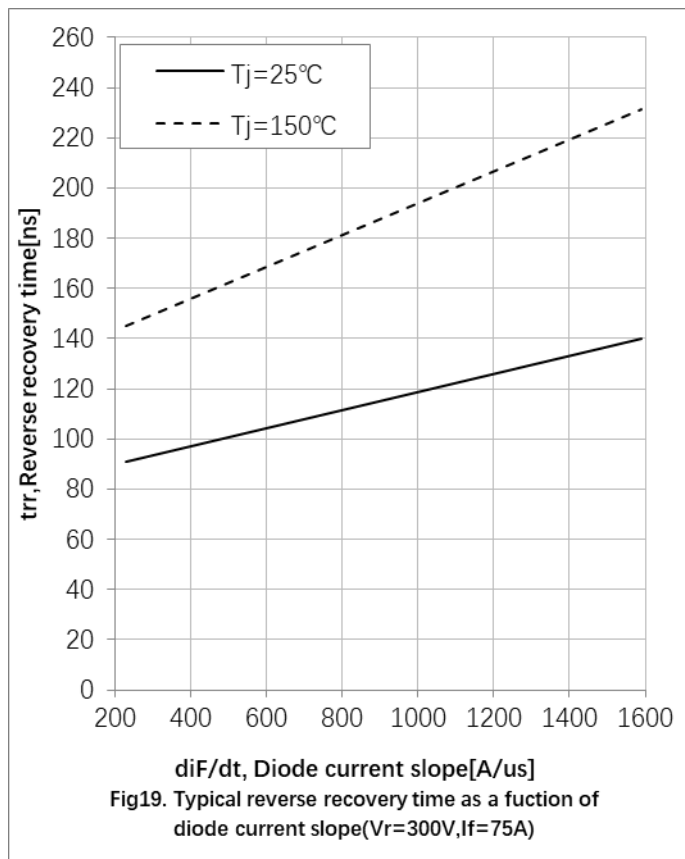
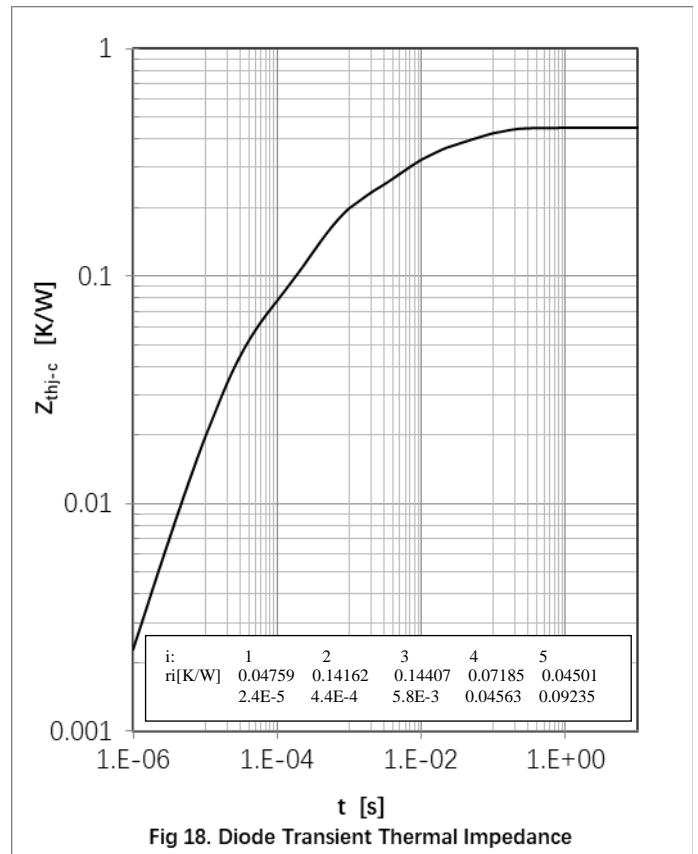
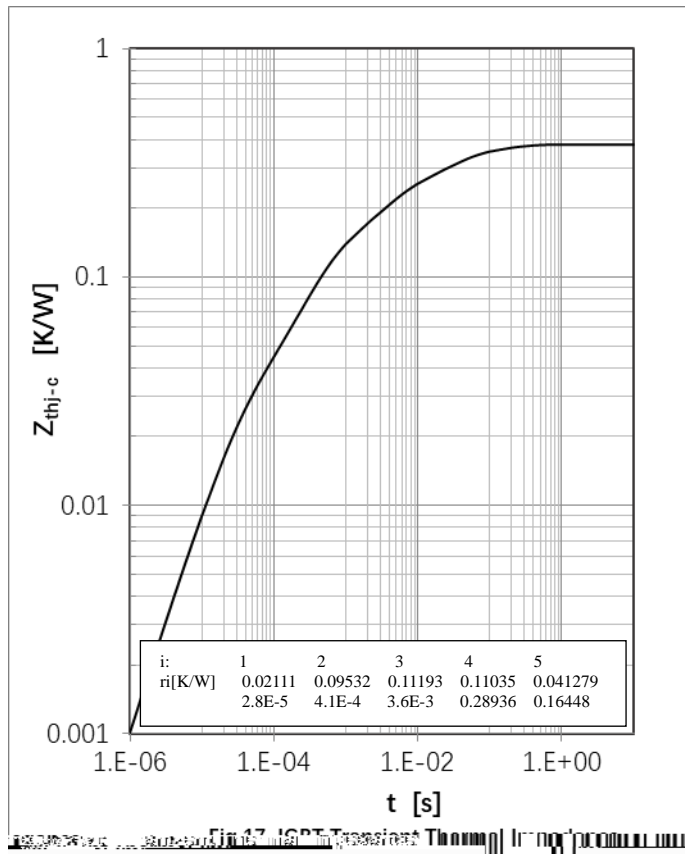
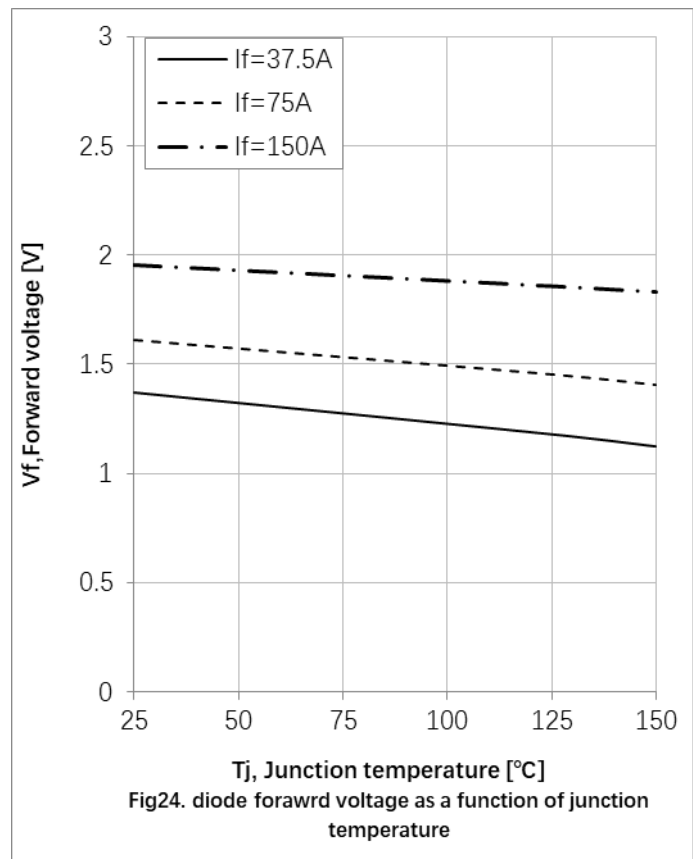
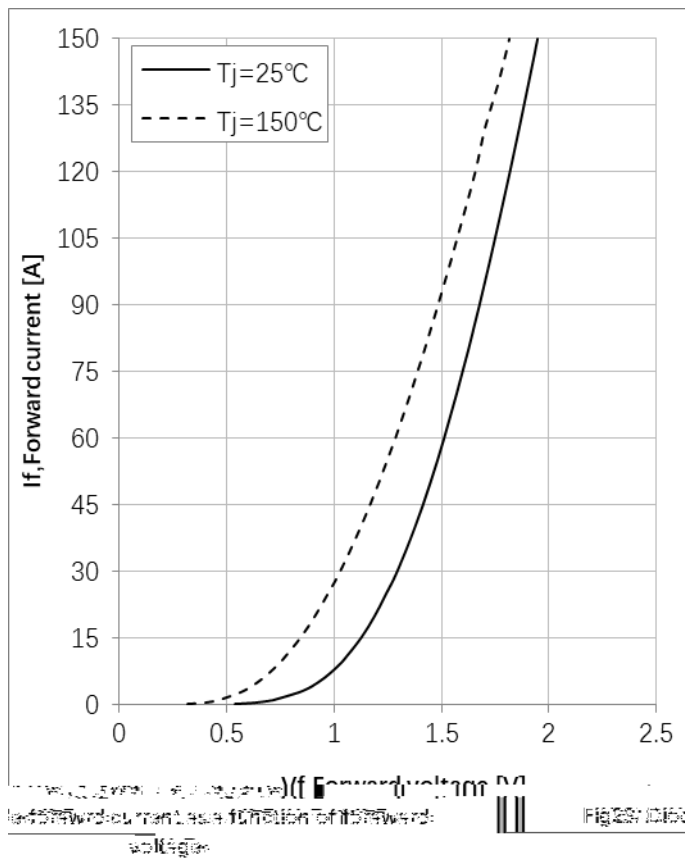
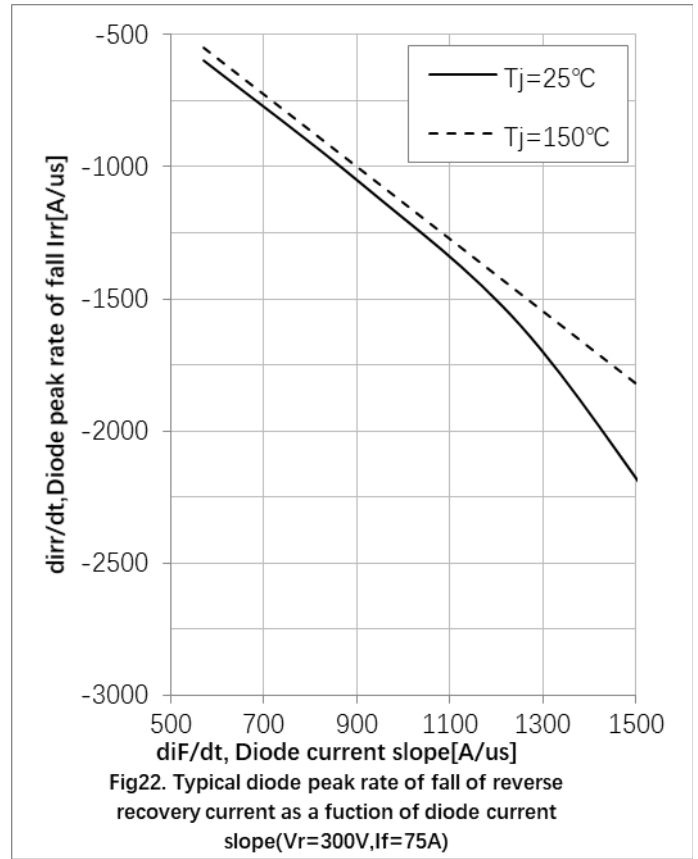
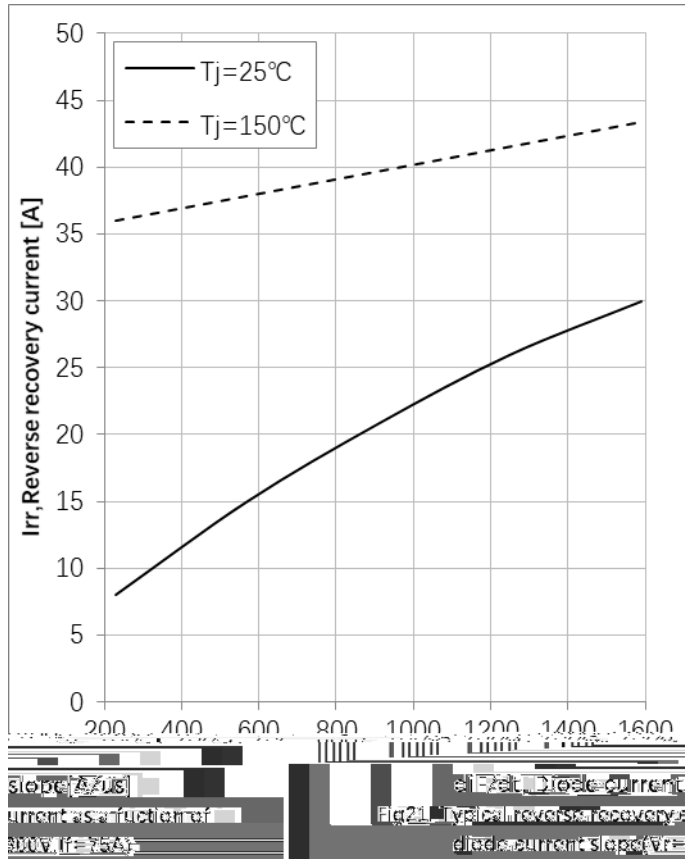


Fig16. Typical



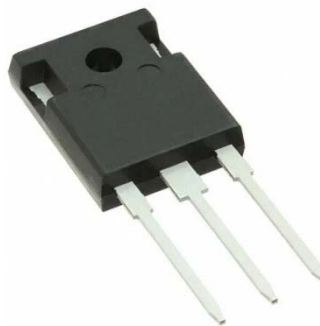
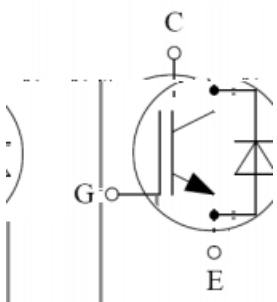




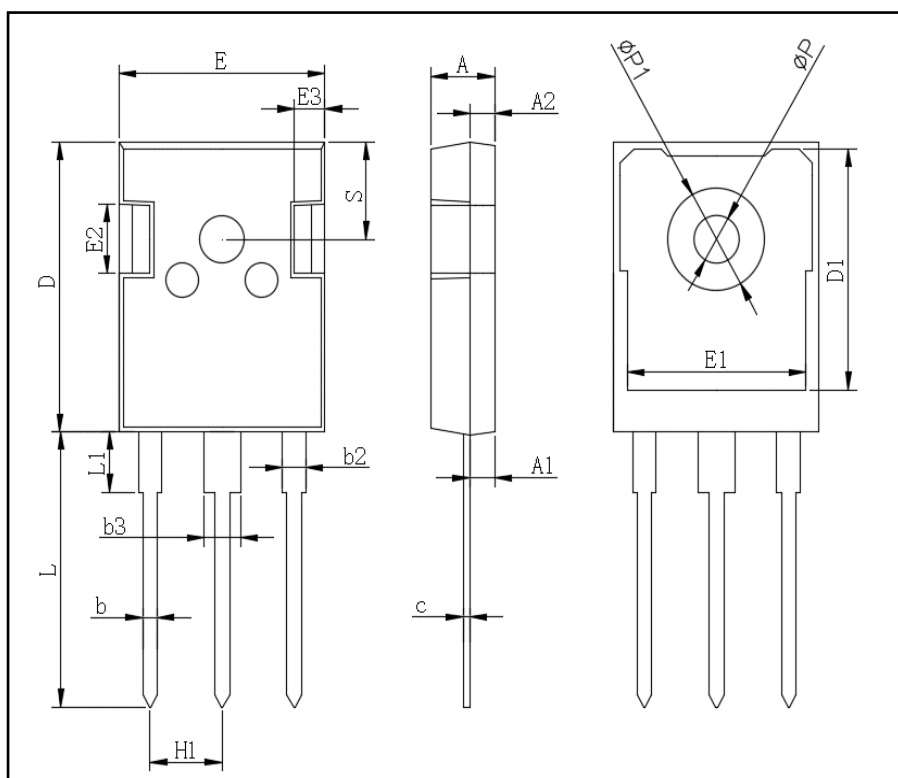
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Circuit Diagram



Package Outline Information



TO-247AB		