



DGP15N65CTL0

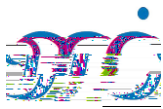


DGP15N65CTL0



Electrical Characteristics of the IGBT $T_j = 25$ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Static						
Collector-Emitter Breakdown Voltage	BV_{CES}	V_{GE}				



DGP15N65CTL0



Electrical Characteristics of the Diode $T_j=25$ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Static						
Diode Forward Voltage	V_F	$I_F=15A$ $T_j=25^{\circ}C$, $T_j=125^{\circ}C$ $T_j=150^{\circ}C$		1.90 1.70 1.60	2.40	V

Switching Characteristic, Inductive Load

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic , at $T_j=25$						
Turn-on Delay Time	$t_{d(on)}$		-	10	-	ns

Rise Time

$T_j=25^{\circ}C$
 $V_{CC}=300V$,
 $I_C=15A$,
 $V_{GE}=-5V\sim 15V$,
 $R_g=51$



DGP15N65CTL0



Electrical Characteristics of the DIODE

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic , at T_j= 25						
Reverse Recovery Current	I _{rr}	I _F =15A, V _R =300V, -di/dt= 380	-	6	-	A
Diode reverse recovery time	trr		-	197	-	ns
Reverse Recovery Charge	Q _{rr}		-	0.24	-	uC
Reverse Recovery Energy	E _{rec}		-	0.06	-	mJ
Dynamic , at T_j= 125						

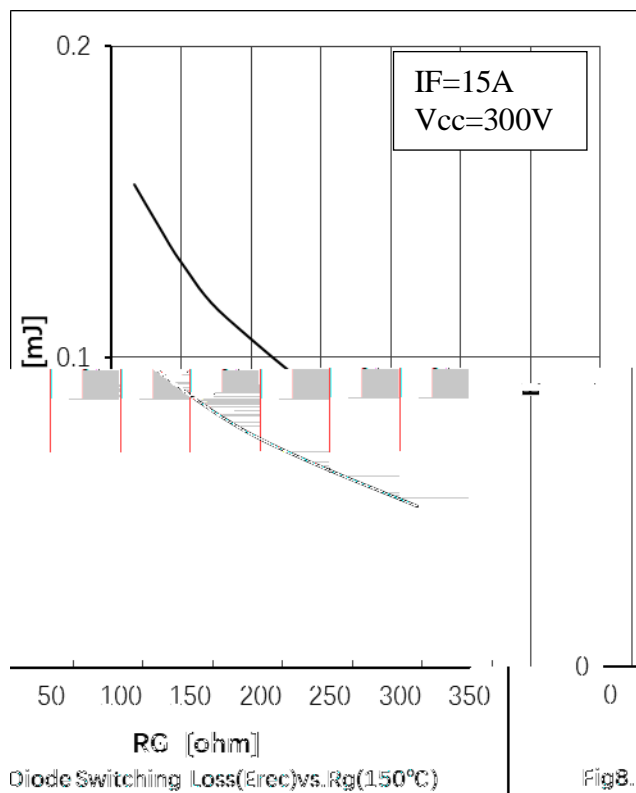
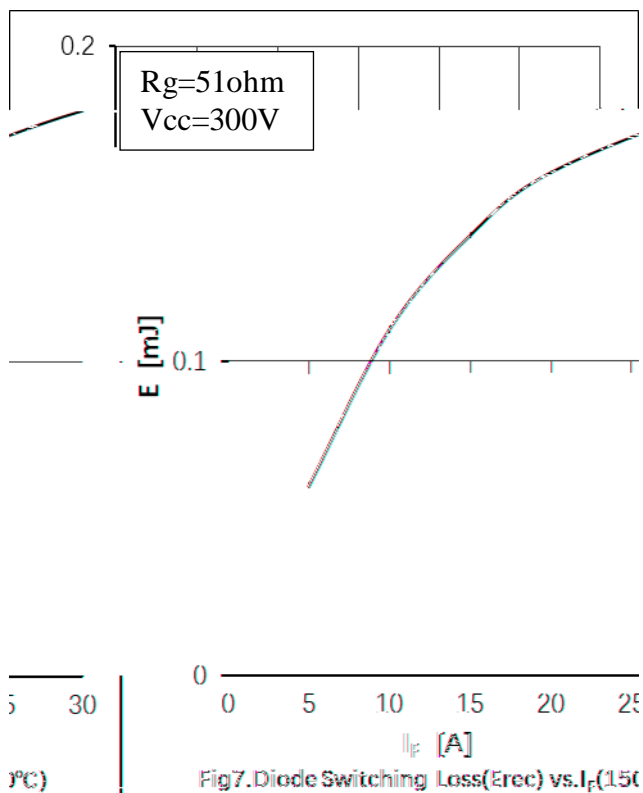
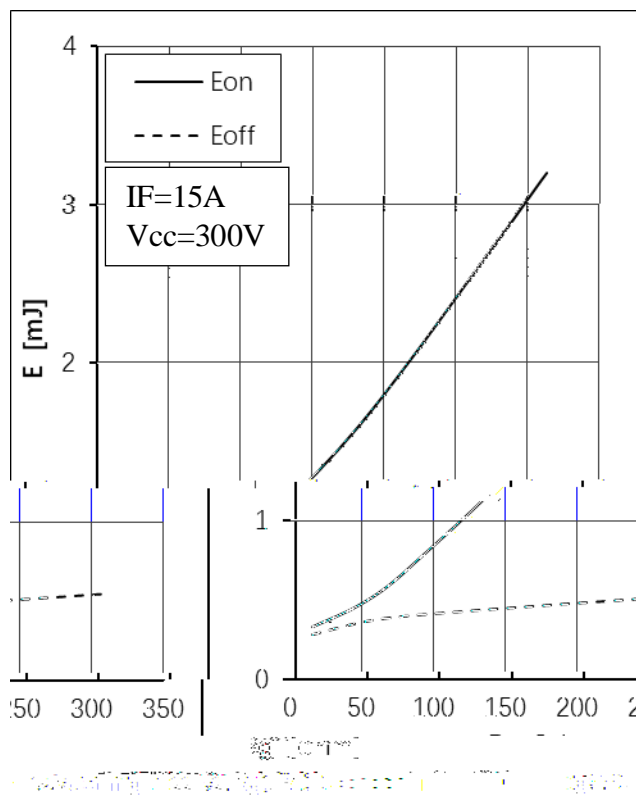
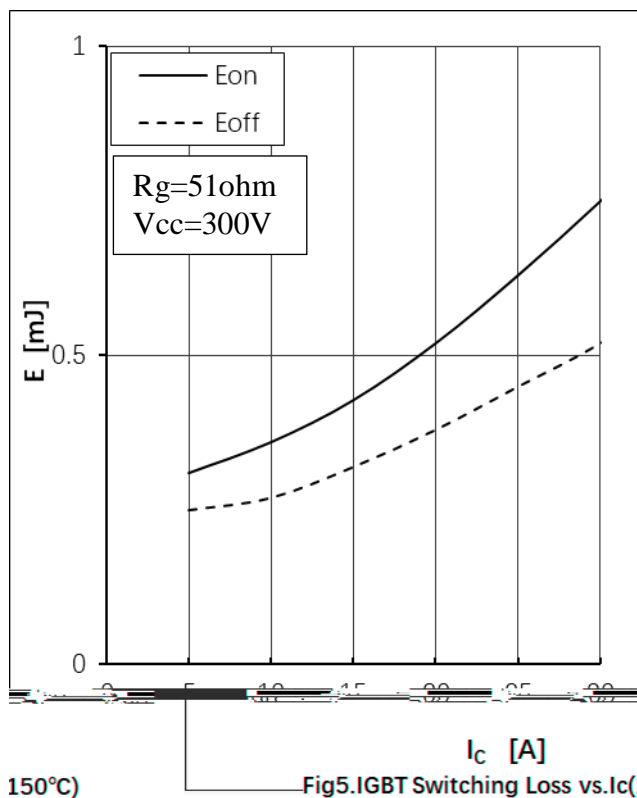
Reverse Recovery Current I_{rr}

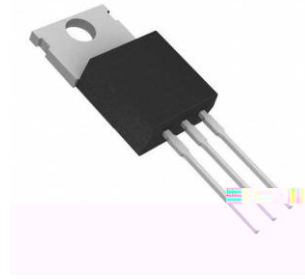
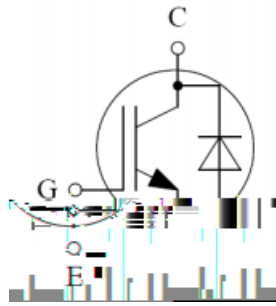
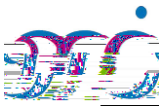


DGP15N65CTL0



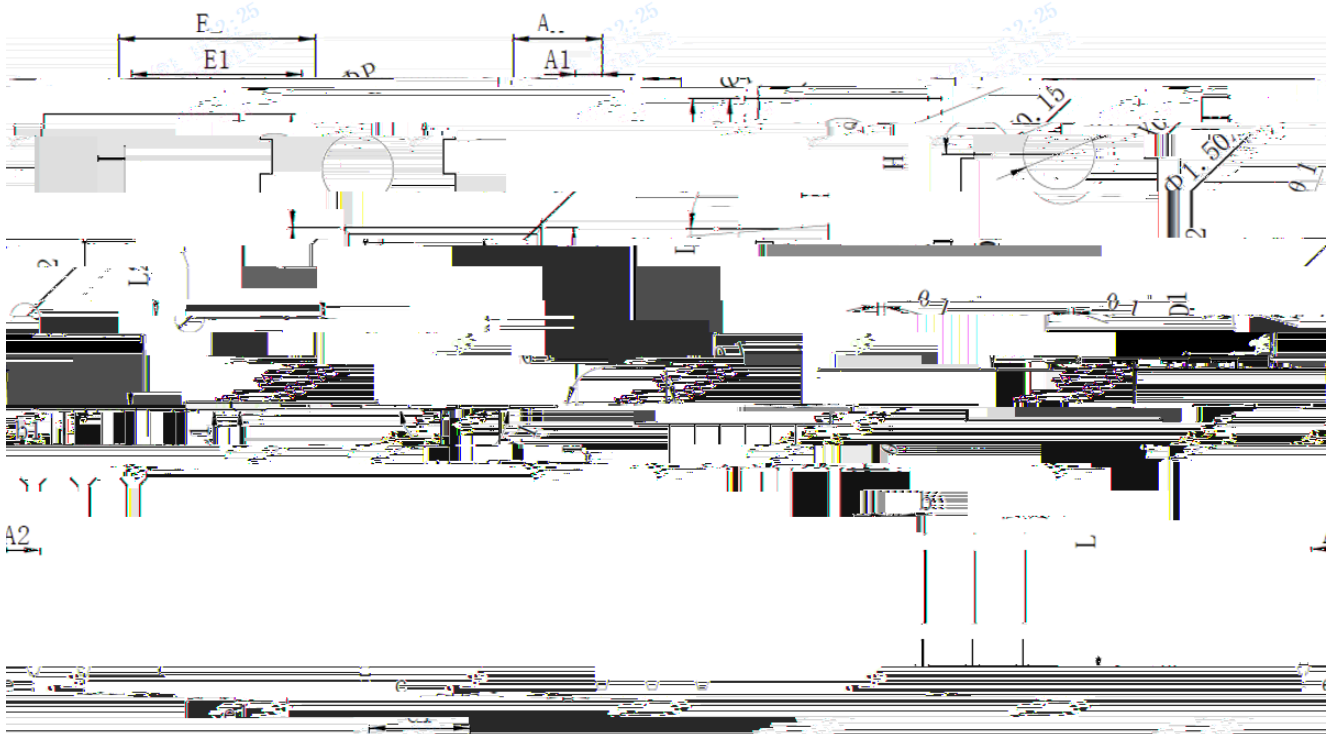
DGP15N65CTL0





Package Outline Information

CASE: TO-220 package information



SYMBOL	单位: mm			SYMBOL	单位: mm		
	MIN	NOM	MAX		MIN	NOM	MAX
A1	1.27	1.52	1.78	D1	0.50	0.76	1.02
A	2.54	2.79	3.05	E1	1.27	1.52	1.78
H	2.54	2.79	3.05	H	2.54	2.79	3.05
E1	1.27	1.52	1.78	A2	0.50	0.76	1.02
A2	0.50	0.76	1.02				

