

# DGW40N120CTL1A1

---

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
-----------	--------	------------	------	------	------	------



# DGW40N120CTL1A1

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
<b>Static</b>						
Diode Forward Voltage	$V_F$	$I_F = 40A$ $T_j = 25^\circ C,$ $T_j = 125^\circ C$ $T_j = 150^\circ C$		2.00 1.90 1.80	2.60	V

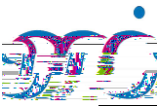


# DGW40N120CTL1A1

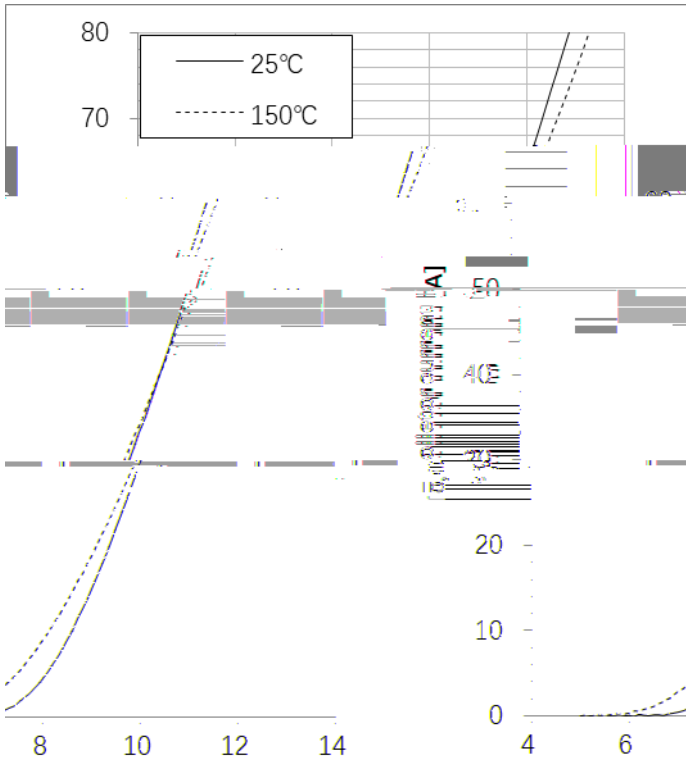
---

## Electrical Characteristics of the DIODE



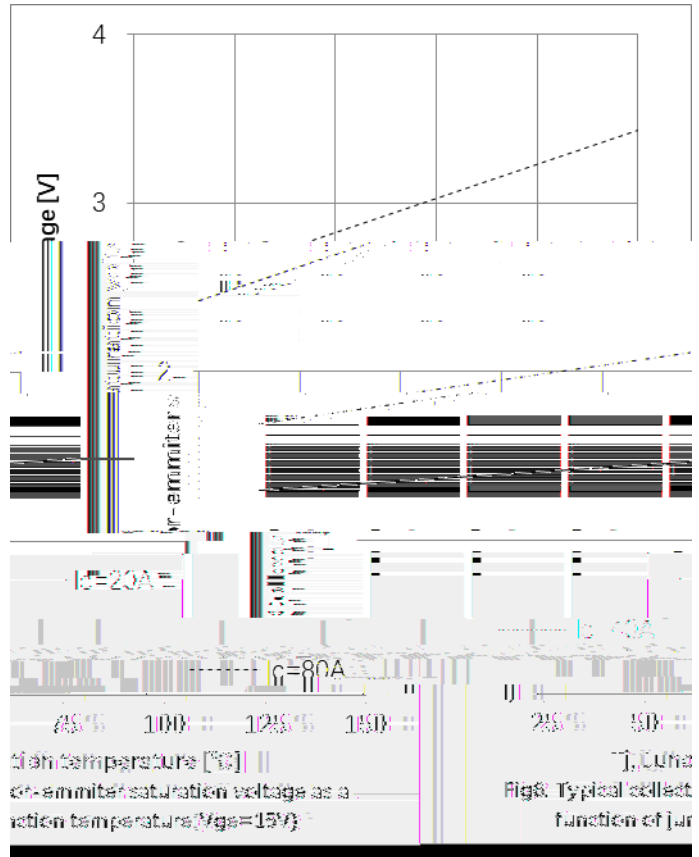


# DGW40N120CTL1A1



emitter voltage [V]  
transfer characteristic (Vce=20V)

Vge, Gate-  
Fig5. Typical trans



collector-emitter saturation voltage as a  
function temperature (Vge=15V)  
Fig8. Typical collect  
function of junc

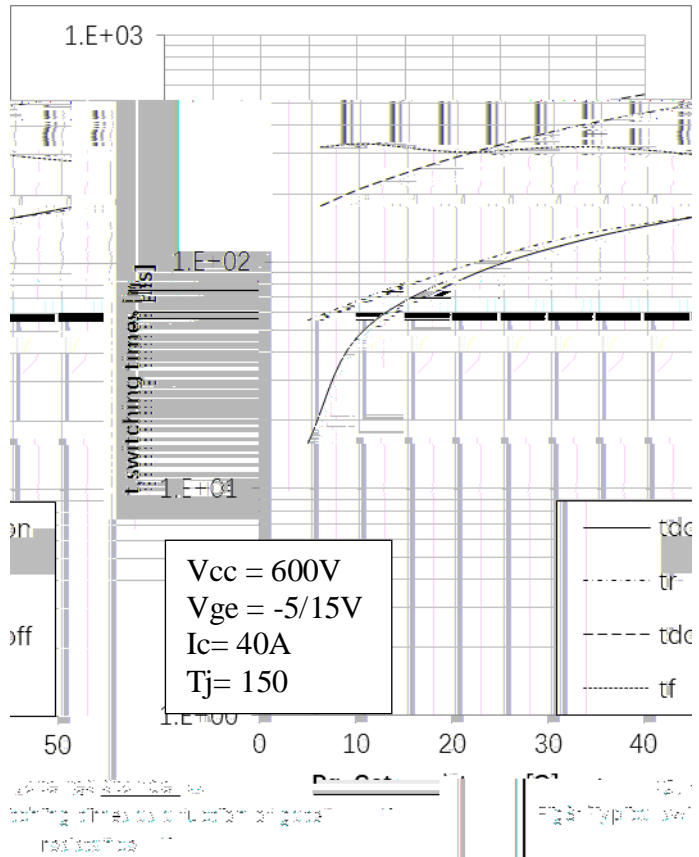
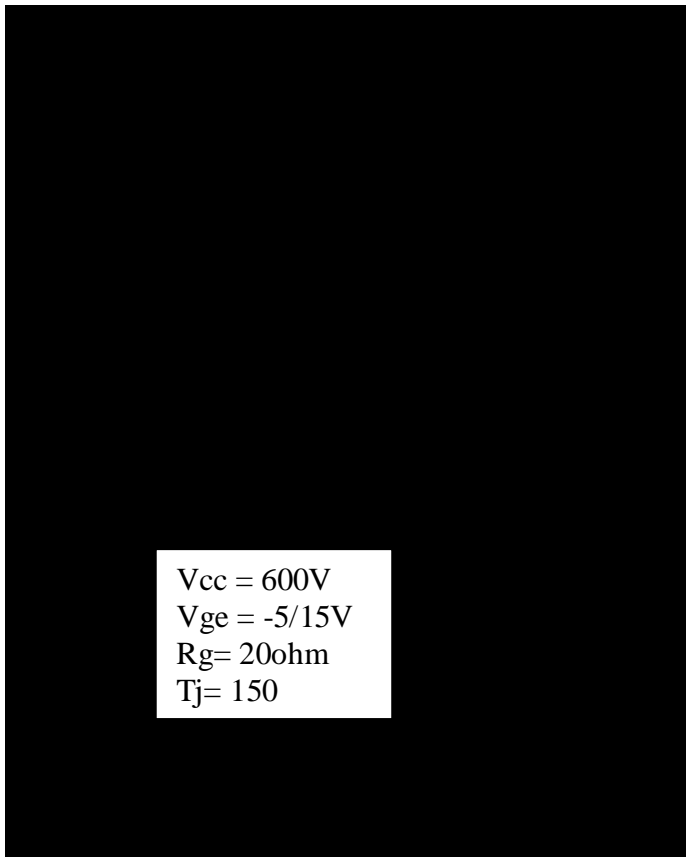
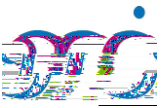


Fig9. Typical swi



# DGW40N120CTL1A1

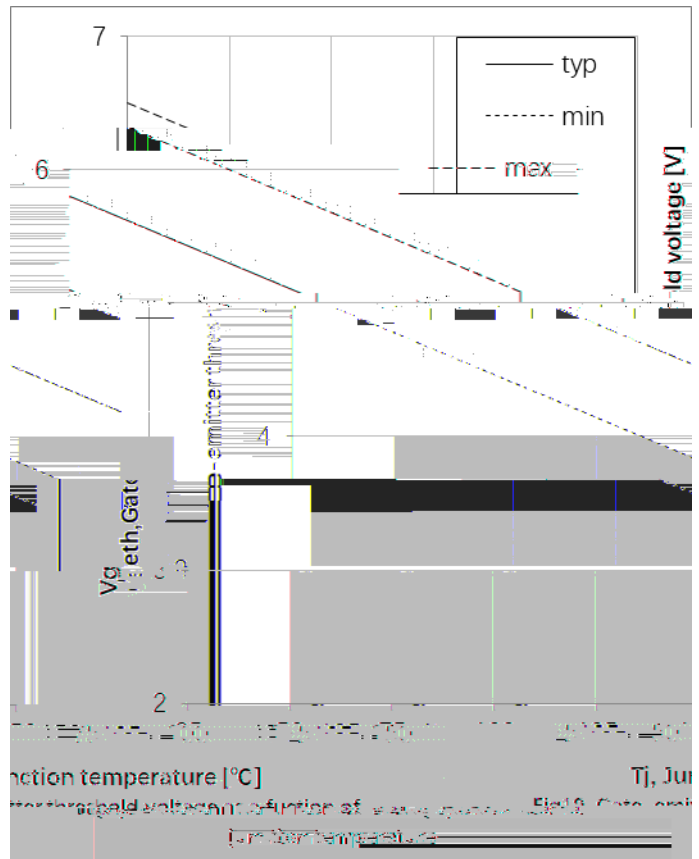
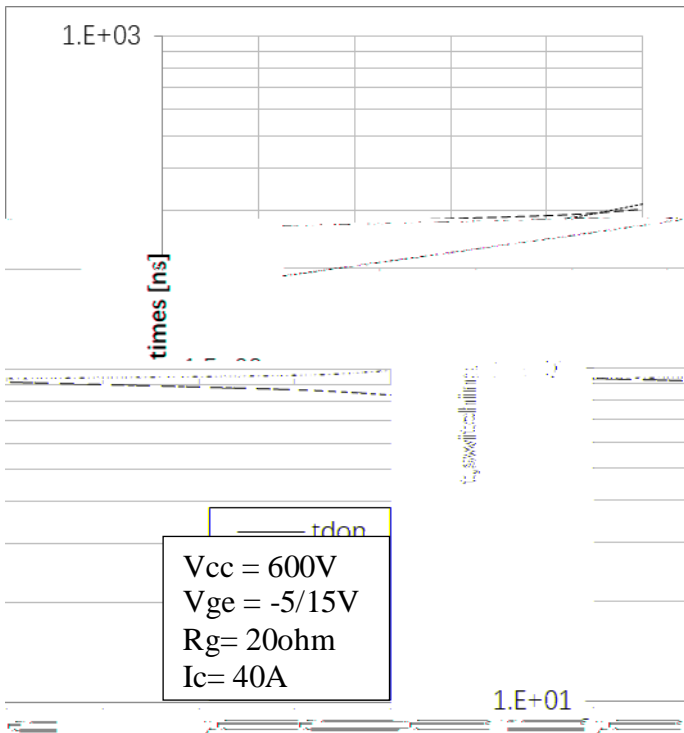


Fig9. Typical switching times as a function of junction temperature

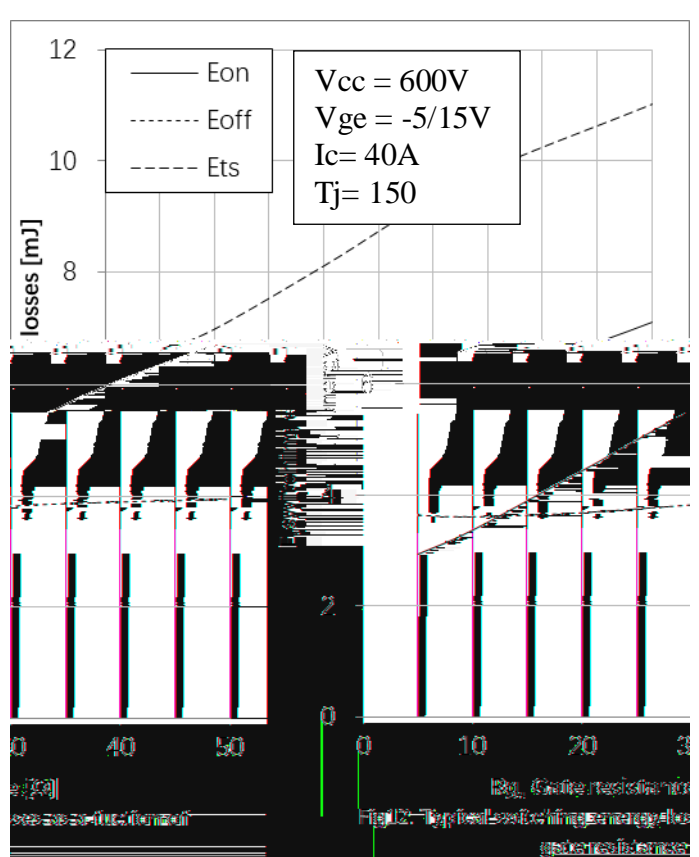
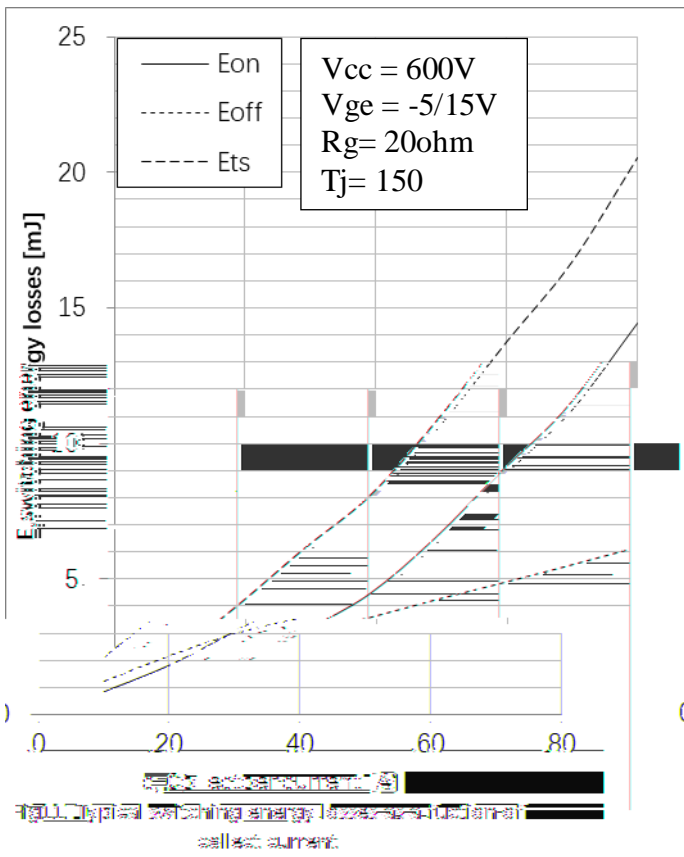
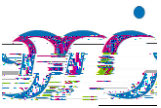
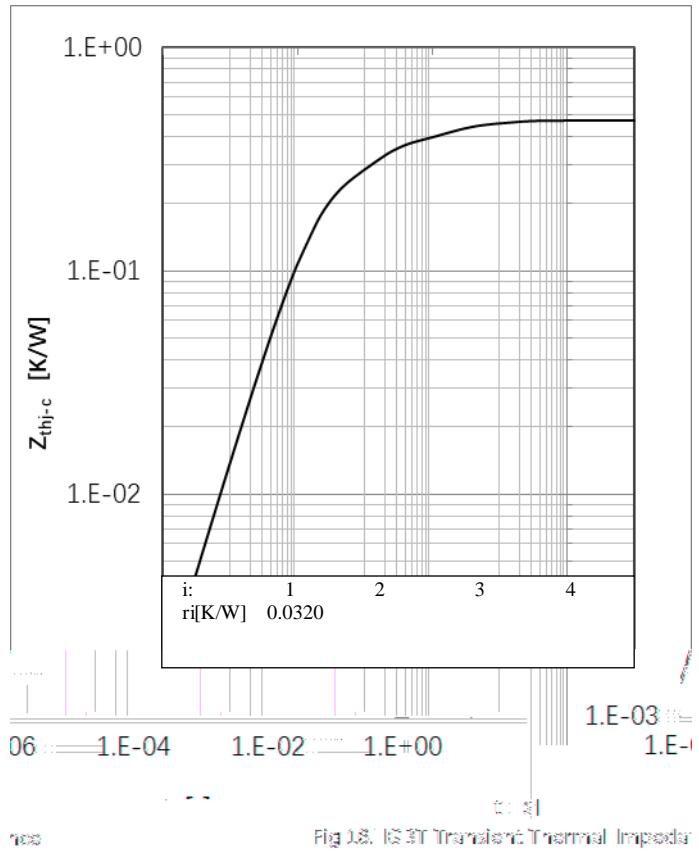
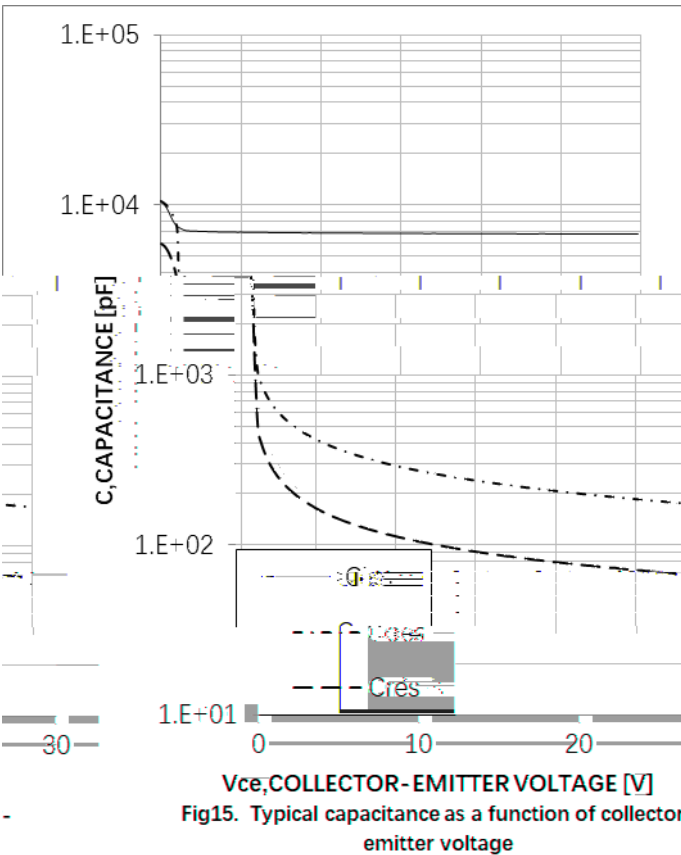
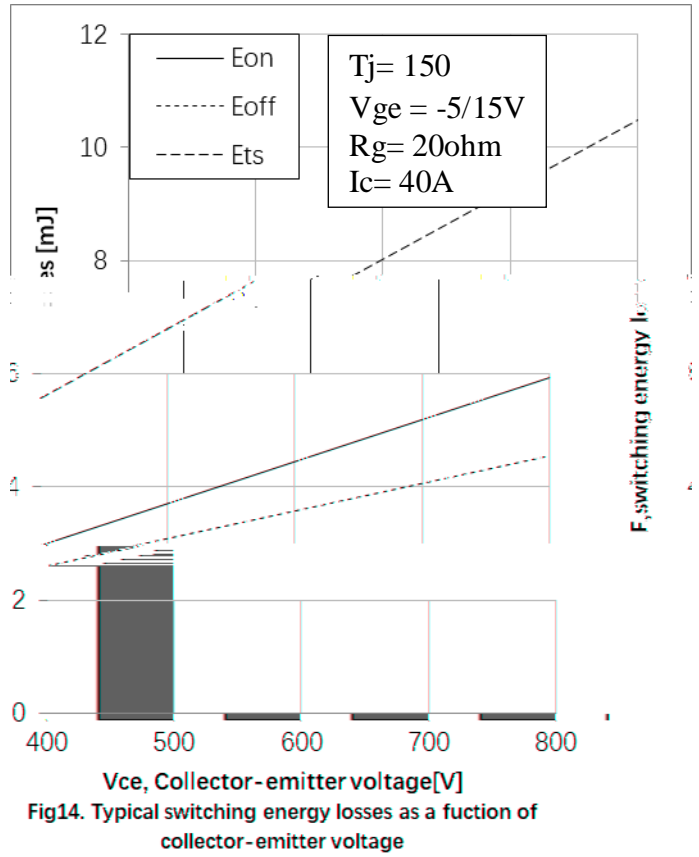
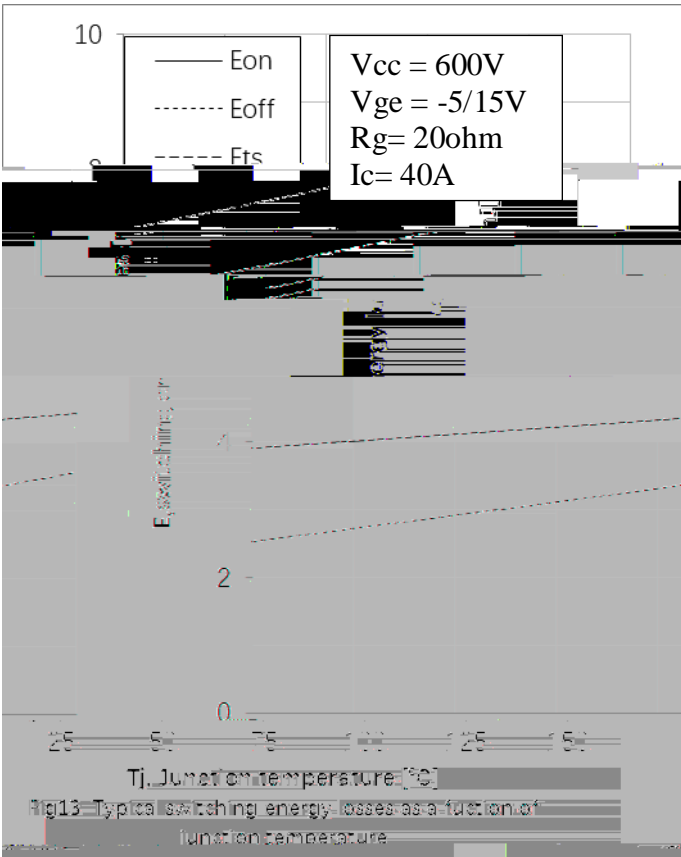
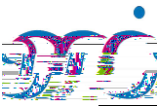


Fig12. Typical switching energy losses as a function of junction temperature



# DGW40N120CTL1A1





# DGW40N120CTL1A1

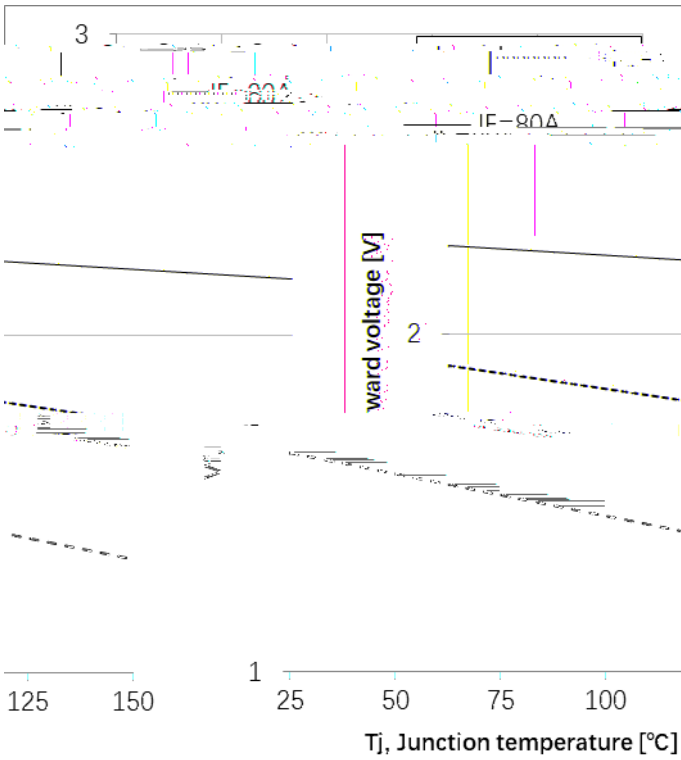
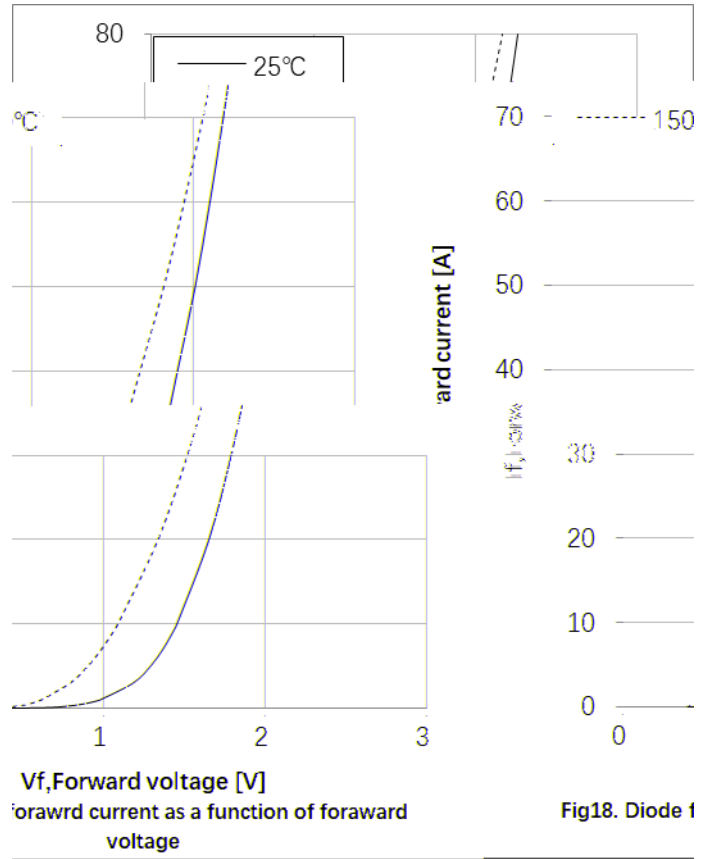
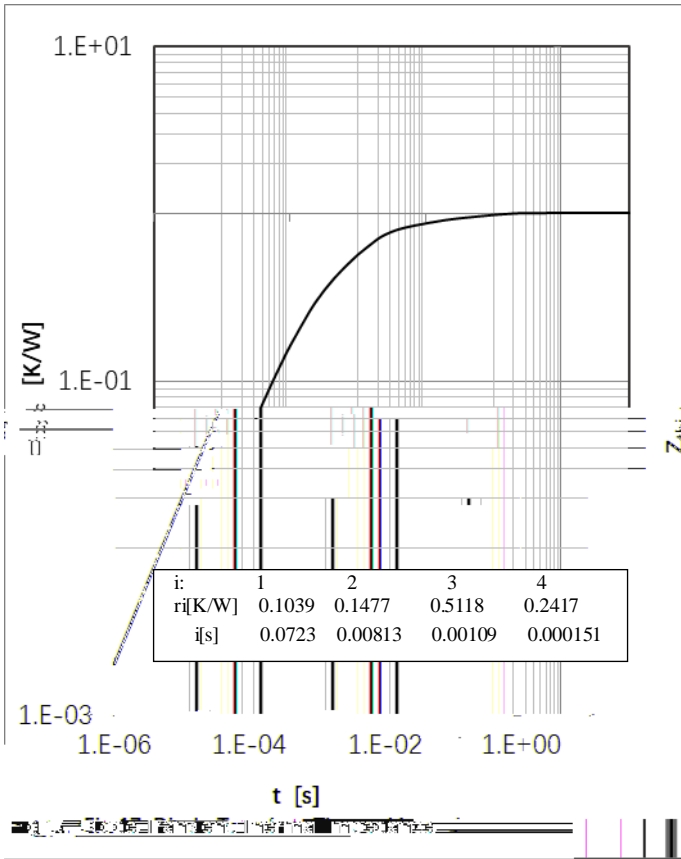


Fig19. Diode forward voltage as a function of temperature



**DGW40N120CTL1A1**



# DGW40N120CTL1A1

---

**D**