

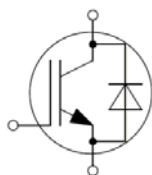


DGW25N120CTL

IGBT Discrete



Circuit



Applications

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Features

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Maximum Ratings

Parameter	Symbol	Value	Unit
	3	P _Q	R 0

$T_c = 25\text{ }^{\circ}\text{C}$ $T_c = 100\text{ }^{\circ}\text{C}$	j _{max}		



DGW25N120CTL

■Electrical Characteristics of the IGBT

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Static						

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic						



DGW25N120CTL

■Electrical Characteristics of the Diode

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Static						

■Switching Characteristic, Inductive Load

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit



DGW25N120CTL

■Electrical Characteristics of the DIODE

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic , at $T_j = 25$;						
Dynamic , at $T_j = 125$;						



DGW25N120CTL

$T_{vj}=25$

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$T_{vj}=150$

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í ó s
í ñ s
í ï s
í í s
õ s



DGW25N120CTL

—— Eon
----- Eoff

$T_{vj} \leq 175$

$V_{CC}=600V$
 $I_C=25A$
 $V_{GE}=\pm 15V$
 $T_{vj}=150$

—— $T_{vj}=25$
----- $T_{vj}=150$





DGW25N120CTL

$V_{CC}=600V$
 $R_G=18\Omega$
 $V_{GE}=\pm 15V$
 $T_{vj}=150$

$V_{CC}=600V$
 $I_F=25A$
 $V_{GE}=\pm 15V$
 $T_{vj}=150$

i:	1	2	3	4
$r_i[K/W]$	0.0840	0.1780	0.4100	0.3270
$\epsilon_i[s]$	0.0723	0.00813	0.00109	0.000155

v&LUFXLW 'LDJUDP

v3DFNDJH 2XWOLQH ,QIRUPDWLRQ

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