

Qrgtcvkpi "Lwpevkqp" Vg o rgtcvwtg"	V_I	" " " /62000 - 397"	$\dot{A}E$ "
Uvqtcig "Vg o rgtcvwtg"	V_u	" " " /77000 - 372"	$\dot{A}E$ "
Uqnfgtkpi " Vg o rgtcvwtg." ycxg" uqnfgtkpi" 308 o o *20285kp0+"htq o "ecug" hqt"32u"	"	482"	$\dot{A}E$ "

Electrical Characteristics of the IGBT $V_I ? 47$ wpnguu"qvjgt ykug"ur gekhkgf

Rctc o gygt"	U{ o dqn"	Eqpfk vkqpu"	O kp0"	V{ r0"	O cz0"	Wpkv"
Static						
Eqnngvqt/G o kvvgt" Dtgcmfqyp "Xqnvci g"	DX_{EGU}	$X_{IG} ? 2X. "K_E ? 472 C"$	3422"	"	/"	X"
I cvg"Vj tgu j qnf"Xqnvci g"	$X_{IG} ? i_j$	$X_{IG} ? X_{EG} . "K_E ? 722 C"$	702"	70 : "	808"	X"
Eqnngvqt/G o kvvgt" Ucvtvcvkqp "Xqnvci g"	X_{EG}^{*ucv+}	$X_{IG} ? 37X. "K_E ? 32C"$ $V_I ? 47 \dot{A}E. "$ $V_I ? 347 \dot{A}E"$ $V_I ? 372 \dot{A}E"$	" " "	" 30 : 7" 4037"	" 4042" "	X"
\ gtq" I cvg"Xqnvci g" Eqnngvqt "Ewttgpv"	K_{EGU}	$X_{EG} ? 3422X. "X_{IG} ? 2X"$ $V_I ? 47 \dot{A}E. "$ $V_I ? 372 \dot{A}E"$	" "	" " " " " "	" 2047" 7022"	" " " o C"
I cvg/G o kvvgt " Ngcmci g" Ewttgpv"	K_{IGU}	$X_{EG} ? 2X. "X_{IG} ? \tilde{O} 42X"$	"	"	622"	pC"

Rctc o gygt"	U{ o dqn"	Eqpfk vkqpu"	O kp0"	V{ r0"	O cz0"	Wpkv"
Dynamic						
kprwv" Ecrcekvcpeg"	E_{kgu}	$X_{EG} ? 47X. "X_{IG} ? 2X. "$ $h" ? 30 J "$	/"	2097"	/"	pH"
Tgxgtug" Vtcpuhtg" " Ecrcekvcpeg"	E_{tgu}		/"	20257"	/"	
I cvg" E jctig"	S_I	$X_{EE} ? ; 82X. K_E ? 32C. "$ $X_{IG} ? 37X"$	/"	202 : "	/"	wE"
Ujqtv" Ektekv" Eqnngvqt" Ewttgpv"	K_{UE}	$X_{IG} ? 37X. "vue \tilde{O} 32wu. "$ $X_{ee} ? ; 22X. V_I 372 \dot{A}E"$	/"	72"	/"	C"



DGW10N120CTL

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Electrical Characteristics of the DIODE

$R_{ctc} \text{ o } g_{vt}$	$U \{ \text{ o } d_{qn}$	$E_{qpfk} k_{qpu}$	O_{kp0}	$V \{ r0$	O_{cz0}	W_{pkv}
Dynamic , at $T_j = 25$						
$T_{gxgtug} T_{geqxtg} \{ "E_{wtg} p_{v}$	K_{tt}	$K_H ? 32C . "X_T ? 822X . "$ $/ f_{klfv} ? 722C l \text{ u} . "$	/"	3407"	/"	C"
$T_{gxgtug} T_{geqxtg} \{ "E_{jctig}$	S_{tt}		/"	20 ; "	/"	wE"
$T_{gxgtug} T_{geqxtg} \{ "G_{pgti} \{ "$	G_{tge}		/"	2047"	"	oL"
Dynamic , at $T_j = 125$						
$T_{gxgtug} T_{geqxtg} \{ "E_{wtg} p_{v}$	K_{tt}	$K_H ? 32C . "X_T ? 822X . "$ $/ f_{klfv} ? 722C l \text{ u} . "$	/"	3606"	/"	C"
$T_{gxgtug} T_{geqxtg} \{ "E_{jctig}$	S_{tt}		/"	309"	/"	wE"
$T_{gxgtug} T_{geqxtg} \{ "G_{pgti} \{ "$	G_{tge}		/"	207"	"	oL"
Dynamic , at $T_j = 150$						
$T_{gxgtug} T_{geqxtg} \{ "E_{wtg} p_{v}$	K_{tt}	$K_H ? 32C . "X_T ? 822X . "$ $/ f_{klfv} ? 722C l \text{ u} . "$	/"	3705"	/"	C"
$T_{gxgtug} T_{geqxtg} \{ "E_{jctig}$	S_{tt}		/"	402"	/"	wE"
$T_{gxgtug} T_{geqxtg} \{ "G_{pgti} \{ "$	G_{tge}		/"	207 : "	"	oL"

Thermal Resistance

$R_{ctc} \text{ o } g_{vt}$	$U \{ \text{ o } d_{qn}$	$O_{cz0} X_{c_{nwg}}$	W_{pkv}
$K I D V " V_{jgt} \text{ o } c_{n} " T_{gukuv} c_{peg} . " L_{wpevk} q_{p} " / " E_{cug}$	$T_{vj} * I / e + "$	20 ; 7"	Ml Y "
$F_{kqfg} " V_{jgt} \text{ o } c_{n} " T_{gukuv} c_{peg} . " L_{wpevk} q_{p} " / " E_{cug}$	$T_{vj} * I / e + "$	3092"	Ml Y "
$V_{jgt} \text{ o } c_{n} " T_{gukuv} c_{peg} . " L_{wpevk} q_{p} " / " C \text{ o } d_{k} g_{pv}$	$T_{vj} * I / c + "$	62"	Ml Y "



— V_{XI}?47 "
----- V_{XI}?347 "

X_{IG}?37X"

— V_{XI}?47 "
----- V_{XI}?347 "

X_{EG}?42X

"" "" " Gqp"
"" "" " Gqhh"

X_{EE}?822X"
T_I?69qj o "
X_{IG}?037X"
V_{XI}?347 "

"" "" " Gqp"
"" "" " Gqhh"

X_{EE}?822X"
K_E?32C"
X_{IG}?037X"
V_{XI}?347 "



KE."Oqfwng"

T I ?69qj o "
X IG ?037X "
V XI ?347 "

k < " " " 3 " " " " 4 " " " " 5 " " " " 6 " "
t k j M I Y _ " " 205976 " " 204533 " " " 204836 " " " 202 : 92 "
£ k j u _ " " " " 203322 " " 202378 " " " 2022357 " " 20222373 "

" " " " " V XI ?47 " "
" " " " " V XI ?347 " " "

X EE ?822X "
T I ?69qj o "
X IG ?037X "
V XI ?347 "

X_{EE}?822X"
K_H?32C"
X_{IG}?037X"
V_{XI}?347 "

k"*****3*****4*****5*****6"
tkjMI Y_ " 203846" " 20493;" " 204827" " 203787"
£ k]u_"" " 202945"" " 2022:35" " 202232;" " 20222377



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