GP3D006A065A

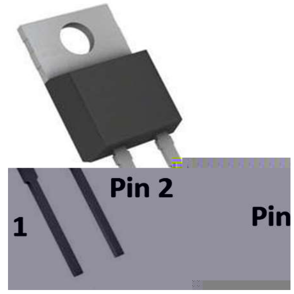
VDC	650 V
Q_C	15 nC
I_F	6 A
$T_{j,max}$	175 °C

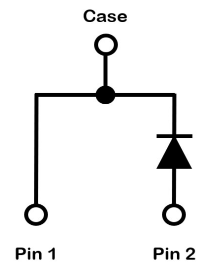
650V SiC Schottky Diode

Amp+™ Features

T h2 dbLhehd hg- fdb d L
Y 2 d d-d db2 d b d L
E L Ld d L d,h d d cd L- hbghf
bgd Ld- Ldc L2 8 l)
L- Ld- Ldc L2 f Ld Lg 604U

Package





Amp+™ Benefits

Md d2- bgh f 2--
Ghfgd deehbhd b
Qdc bdc gd L- h j d hq d L-
D - L2 d

Part #	Package	Marking
GP3D006A065A	TO-220-2L	3D006A065

Amp+™ Applications

R hbg 2cd 2 d- hd- TCR
O2 d e bL2 b2 dbLh2
N L L dbLhehb Lh2
DU bg fhf-L Lh2 -

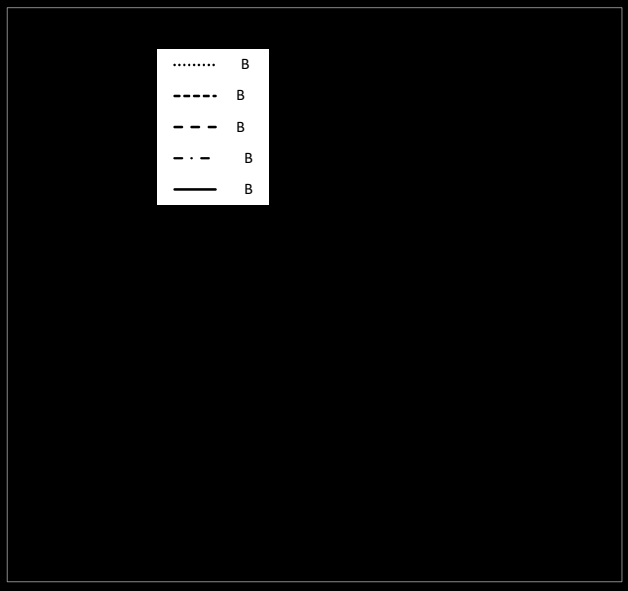
Maximum Ratings L S_j 14 B d-- 2Lgd hd- dbLhehdc

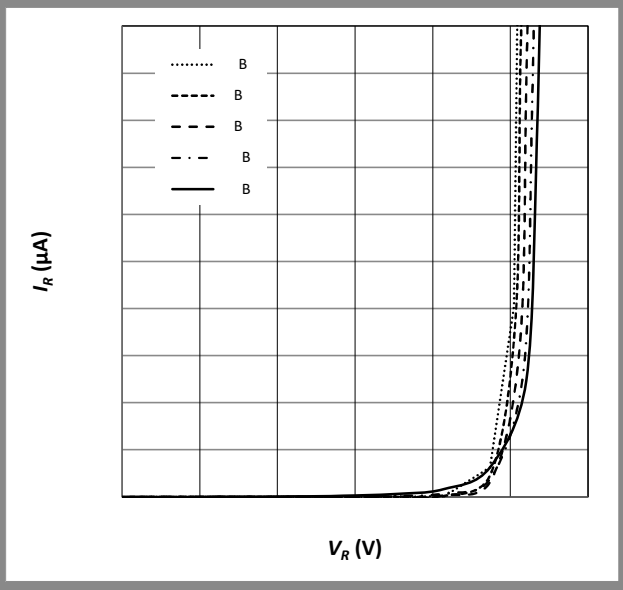
Characteristics	Symbol	Conditions	Values	Unit
B2 Lh 2 -e2 cb d L	H E))	S_B 14 B S_j 064 B	1/	
		S_B 014 B S_j 064 B	00	
		S_B 04/ B S_j 064 B	6	
R fd 2 ,d dLhhde2 cb d L -hdg e d	H ERL	S_B 14 B L 7-2 -	24	
		S_B 00/ B L 7-2 -	20	
M2 , dLhhd d je2 cb d L	H E	S_B 14 B L 0/ -	3//	
1 d	∫1	S_B 14 B L 7-2 -	4	1 -
		S_B 00/ B L 7-2 -	3	
Qd dLhhd d j d d-d 2L fd	U_{QQL}	S_j 14 B	54/	U
Ch2cd ffdc d--		S ,2 -d Ld d dLhhd	1//	U. -
O2 d ch-h Lh2	$O_{L2))}$	S_B 14 B	60	V
N Lhfi bLh2 -L2 fd Ld d L d	S_j S_{-2} fd	B2 Lh 2 -	,44 064	B
R2 cdhf Ld d L d	S_{-2cd}	V d-2 cdhf d c-	15/	B
L2 Lhf L2 d		L 2Rb d	0	M,

Notes:

B

b Q B


B
B
B
B
B



T_j=25 °C

C (pF)

V_R (V)

Q

b

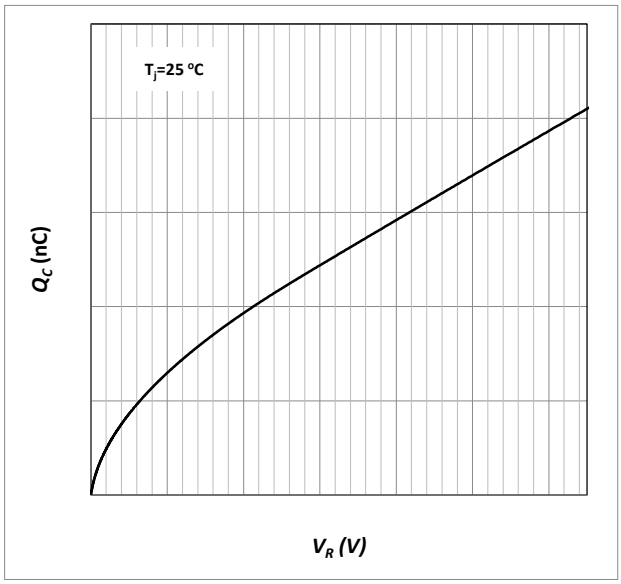


Fig. 7 Capacitive Charge

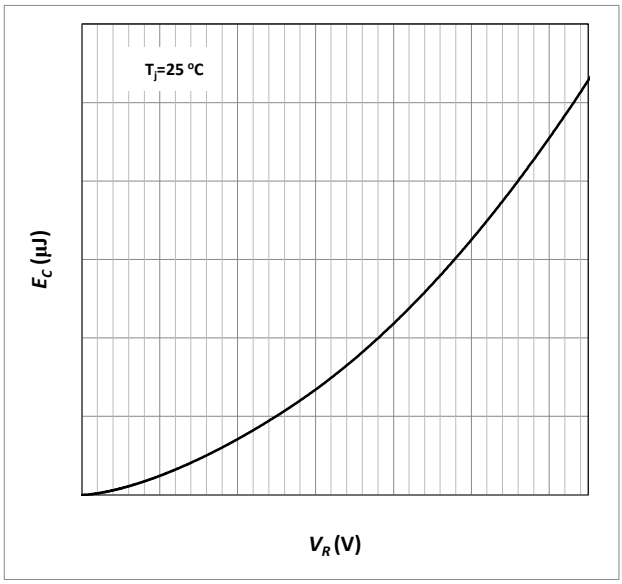


Fig. 8 Typical Capacitance Stored Energy

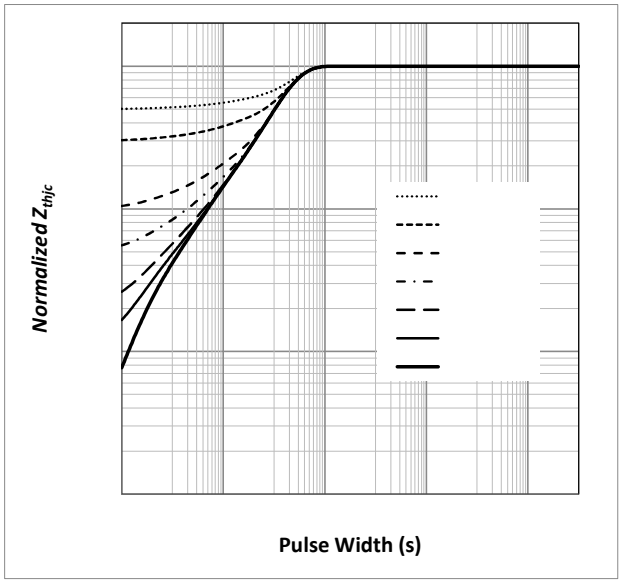
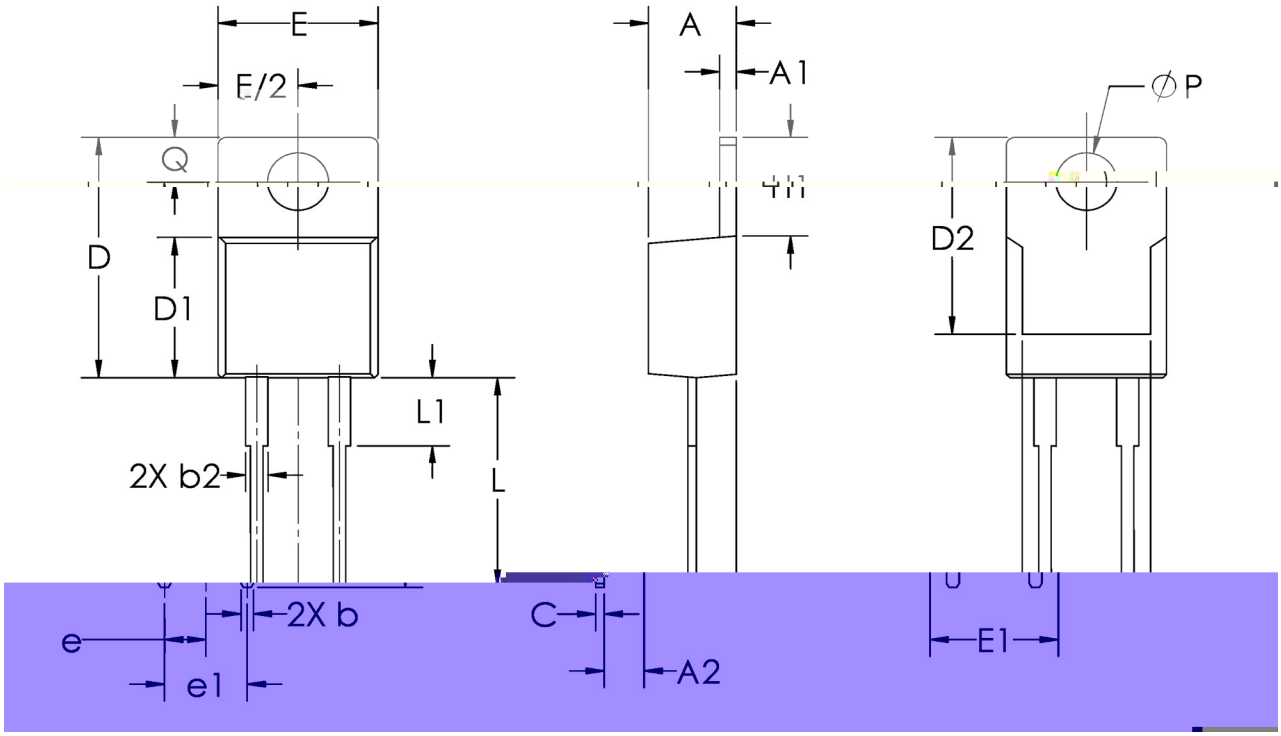


Fig. 9 Transient Thermal Impedance

Package Dimensions TO-220-2L



Sym	Millimeters		Inches	
	Min	Max	Min	Max
	3-1 /	3-6/	/ -054	/ -074
0	0-03	0-3/	/ -/ 34	/ -/ 44
1	1 -/ 2	1 -81	/ -/ 7/	/ -004
a	/ -27	0-/ 1	/ -/ 04	/ -/ 3/
a1	0-/ 1	0-67	/ -/ 3/	/ -/ 6/
b	/ -25	/ -65	/ -/ 03	/ -/ 2/
C	03 -11	05 -40	/ -45/	/ -54/
C0	7 -27	8 -3/	/ -22/	/ -26/
C1	01 -08	02 -02	/ -37/	/ -406
D	8 -54	0/ -56	/ -27/	/ -31/
D0	5 -75	7 -78	/ -16/	/ -24/
d	1 -43 ARB		-0/ / ARB	
d0	4 -/ 7 ARB		-1/ / ARB	
G0	4 -73	5 -75	/ -12/	/ -16/
K	01 -46	03 -62	/ -384	/ -47/
K0	2 -5/	5 -24	/ -031	/ -14/
O	2 -42	3 -/ 8	/ -028	/ -050
P	1 -43	2 -32	/ -0/ /	/ -024

Revision History

C Ld	Qd h h2	M2 Ld.
7.16.1/10	0-/	Hhh dd - d2ec L - gddL

M

RoHS Compliance

Q b b b b
b b b bb b b B Q b Q
b b b b b b b

REACh Compliance

Q B b b b B b b B b b B b
B b b b B
Q B B b Q B b Q B b

b b b b b b b b
b b b

b b b b
b b b b
b b b b b b b b b b
bb

b b
b b b b b b b b b b
b b b b

b b b b b b
b b b b b