

VDC	650 V
Q _C	54 nC***
I _F	20 A***
T _{j,max}	175 °C

T h e d b l e d i n g - f d b d L
Y d 2 d d - d d b 2 d b d L
E - L d d L d, h c d d c d L - h b g h f
b g d L d c L 2 56 I)
" L L d L d c L 2 f c L d L g 604 U

TM Benefits

Md d 2 - bgh f 2 - -

D - L2 d

Amp+™ Applications

R	hbg	2	cd	2	d	-	rd	TOR
Q ₂	d	e	b ₁	b ₂	db ₁	h ₂		
DU	bg	f	h	f	-	L	h ₂	-
N	L	L	db	h ₁	h ₂	h ₂		

Part #

Package

GP3D020A065U

TO-247-3L

Maximum Ratings L S 14 B d - 2Lgd h d - dbledc

	Symbol	Conditions	Values	
		S_B 14 B S_1 064 B	18	
	H_B)	S_B 014 B S_1 064 B	04	
		S_B 04/ B S_1 064 B	8	
	H_{RL}	S_B 14 B L 7-2 -	64	
		S_B 00/ B L 7-2 -	54	
M_2 , c d u h h d d j e c b d L	H_L	S_B 14 B L 0/ -	67/	
1 d	$\int^1$	S_B 14 B L 7-2 -	12	1 -
		S_B 00/ B L 7-2 -		
Qd d u h h d d j d d - d 2 L f d	U_{QQL}	S_1 14 B		U
Ch_2 c d f f d c d -		S_{-2} - d L d		U. -
		d d u h h d		
Q_2 d c h - h u h	$Q_{(2)}))$	S_B 14 B		V
N_1 u h f i b u h - l_2 f d	$S_1 S_{-2}$ f d	B_2 u h 2 -		B
L_d d L d				
R_2 c d h f u d d L d	S_{-2} c d	V d - 2 c d h f d c -		B
L_2 u h f l_2 d		L 2 R b d	0	M_1

Notes:

B

$$b \quad Q \quad B$$



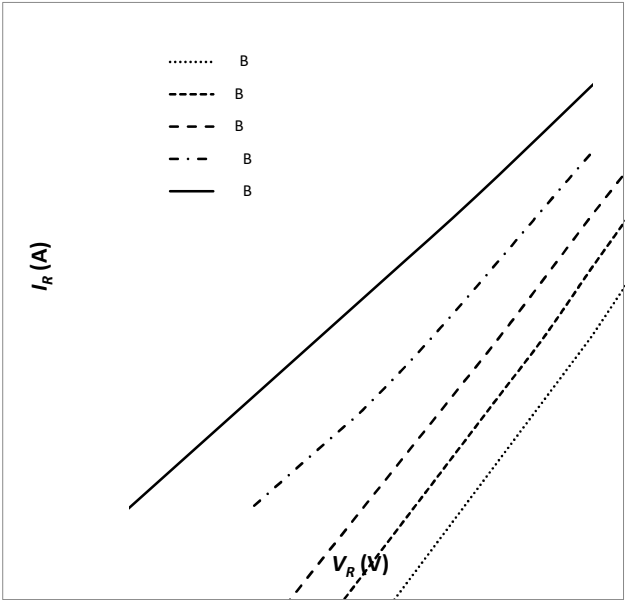
U_{CB}
 U_{AQ}

P_B



$Q_{gl\ B}$

T□□□ #



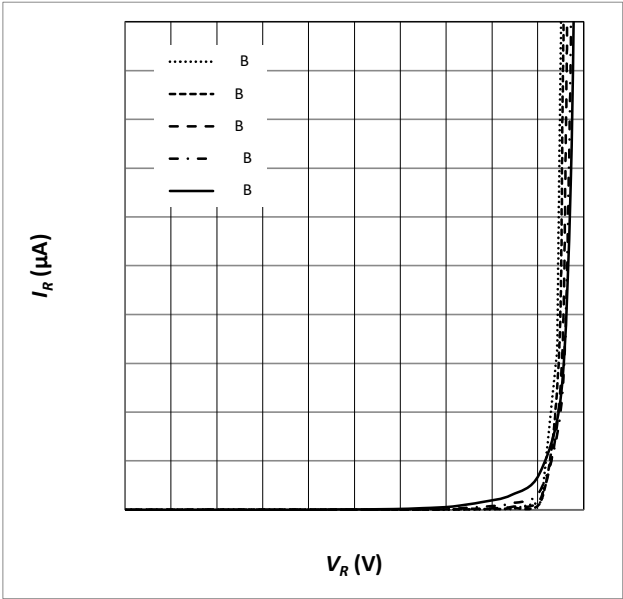


Fig. 3 Reverse Characteristics

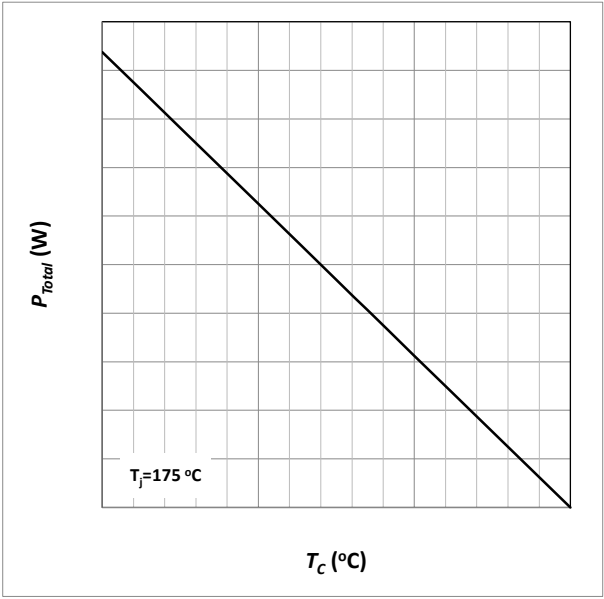


Fig. 4 Power Derating

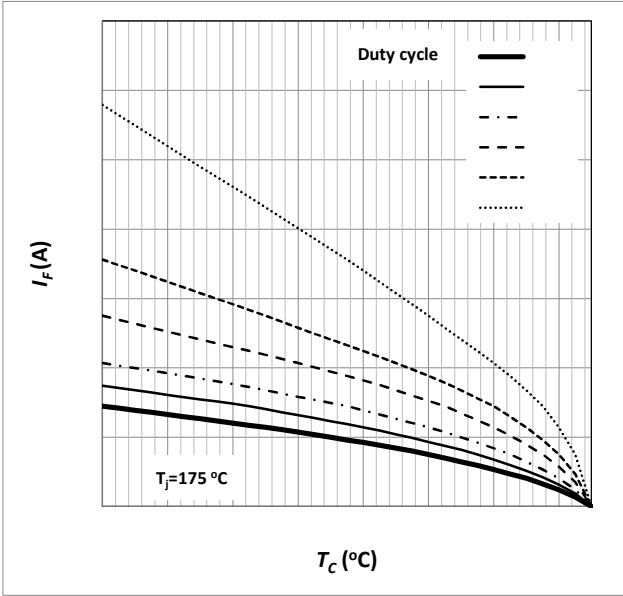


Fig. 5 Current Derating

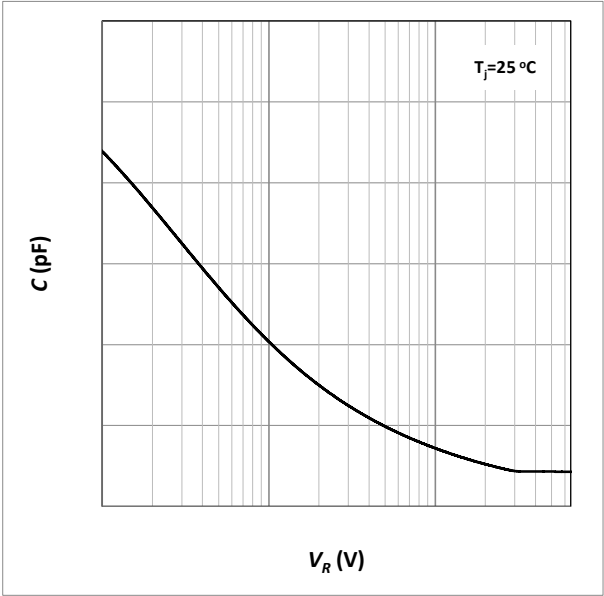


Fig. 6 Capacitance

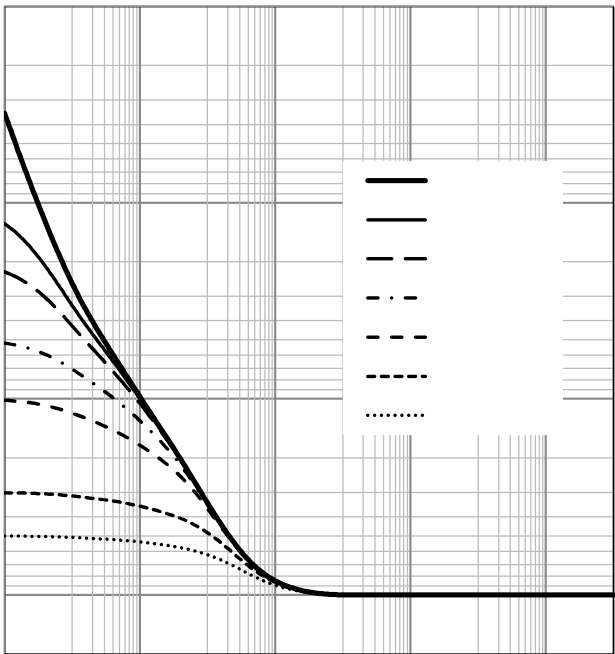
$$\lambda^B(\lambda)$$

$$T^l=52\text{ }^{\circ}\text{C}$$

$$E^C(\ln)$$

$$\text{Pulse Width (s)}$$

$$\text{Normalized } \Sigma_{\text{thjc}}$$

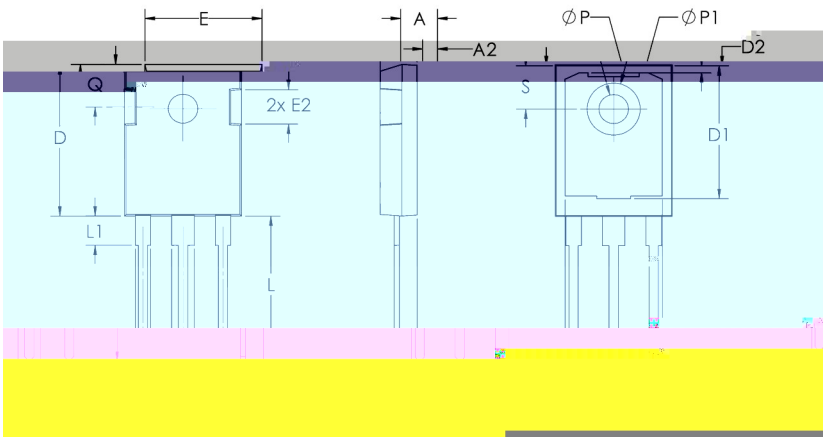


650V SiC Schottky Diode

Amp+™

GP3D020A065U

Package Dimensions TO-247-3L



Sym	Millimeters		Inches	
	Min	Max	Min	Max
	3-6/	4-20	/ -074	/ -1/ 8
0	1-10	1-48	/ -76	/ -0/ 1
1	0-4/	1-38	/ -48	/ -1/ 87
a	/ -88	0-3/	/ -28	/ -1/ 44
a1	0-54	1-28	/ -54	/ -1/ 83
a3	1-48	2-32	/ -0/ 1	/ -024
b	/ -27	/ -78	/ -1/ 04	/ -1/ 24
C	1/ -7/	10-35	/ -708	/ -734
C0	02-7	06-54	/ -404	/ -584
C1	/ -40	0-24	/ -1/ 1/	/ -1/ 42
D	04-38	05-15	/ -50/	/ -53/
D0	02-35	03-05	/ -42/	/ -446
D1	2-32	4-38	/ -024	/ -1/ 05
d	4-33 ARB		/ -1/ 03 ARB	
K	08-70	1/ -21	/ -67/	/ -7/ 1
K0	3-0/	3-4/	/ -050	/ -066
O	2-45	2-55	/ -03/	/ -033
O0	6-7/ 5	6-28	/ -167	/ -180
P	4-28	5-1/	/ -101	/ -133
R	5-7/ 3	5-2/	/ -127	/ -137

GP3D020A065U

C 1d	Qd h h	M2Ld
00.708	0-/	Hh h d d . d 2 ec L . ggdL
01.08.1/ 08	0-0	B2 d d c L d bg f d c 1dc Qg b . db
1.1/.1/ 02	0-1	T . h f Qgjb L h e H c Q2L
3.2/.1/10	0-2	T c 1dc e c 2 L f d . db . f d Qgjb, h e c 1d b2 c d . ed 10/ 0 XXV V e L(

RoHS Compliance

[illegible]