



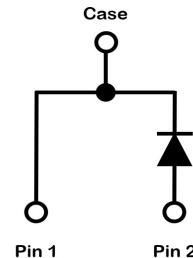
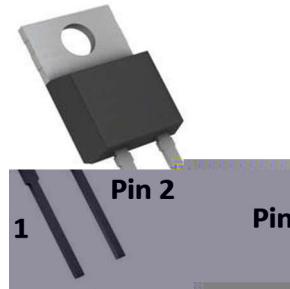
## 650V SiC Schottky Diode

**GP3D010A065A**

<b>V<sub>DC</sub></b>	<b>650 V</b>
<b>Q<sub>C</sub></b>	<b>27 nC</b>
<b>I<sub>F</sub></b>	<b>10 A</b>
<b>T<sub>j,max</sub></b>	<b>175 °C</b>

## ***Amp+™ Features***

## Package



## **Amp+™ Benefits**

## **Amp+™ Applications**

Part #	Package	Marking
GP3D010A065A	TO-220-2L	3D010A065



## Maximum Ratings

## Notes:

R

b Q b

Q

b

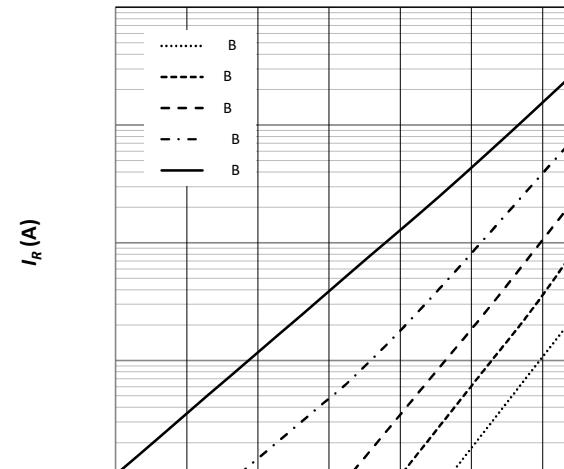
Characteristic      Symbol      Conditions      Values

S

..... B  
- - - B  
- - - B  
- - - B  
— B

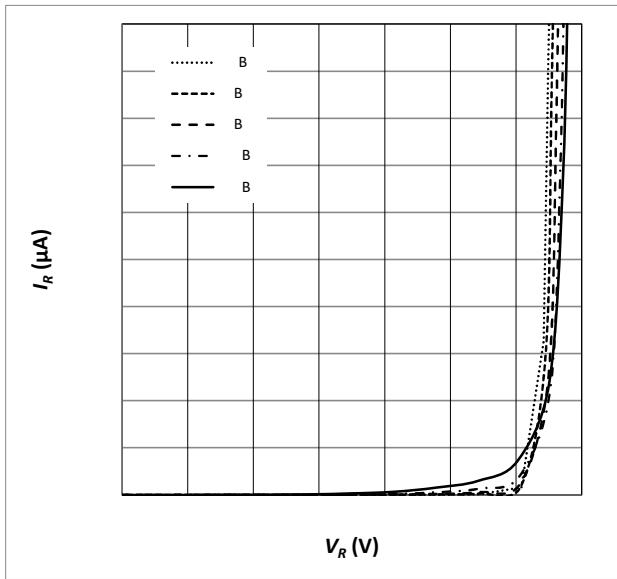
$I_F$  (A)

$V_F$  (V)



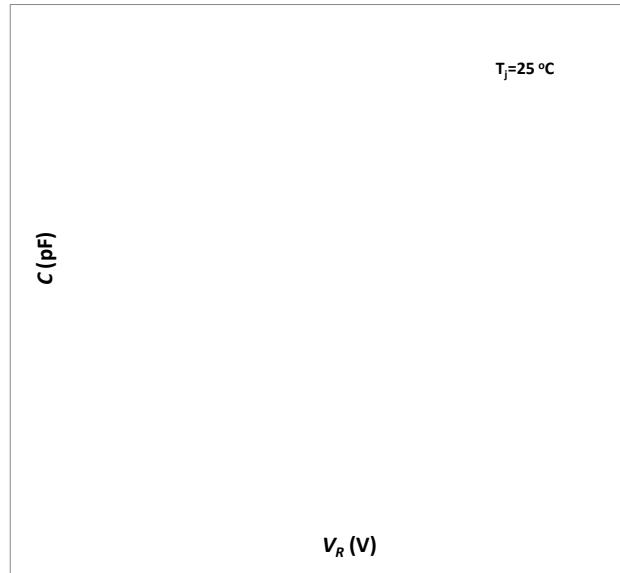
**650Vt**

**GP3D010A065A**



**Fig. 3 Reverse Characteristics**

**Fig. 4 Power Derating**



**Fig. 5 Current Derating**

**Fig. 6 Capacitance**

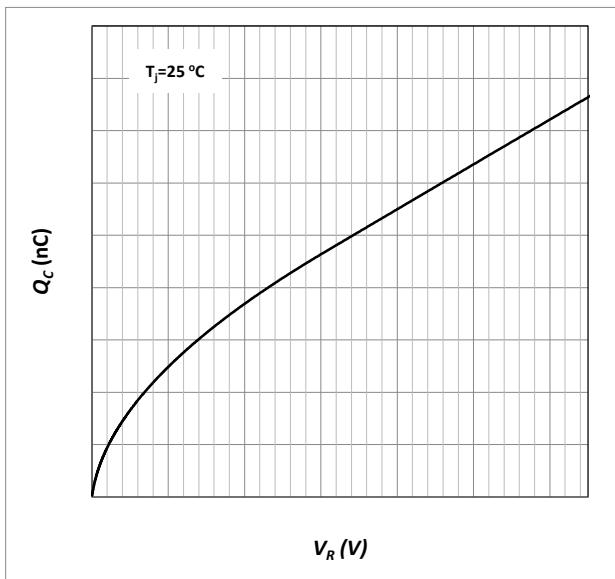


Fig. 7 Capacitive Charge

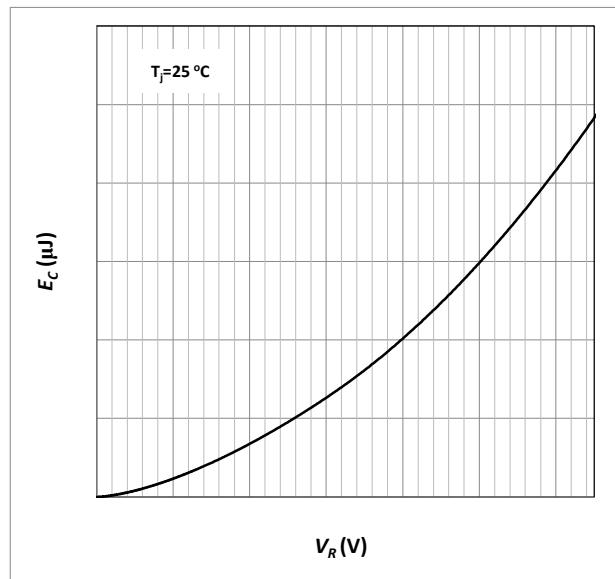


Fig. 8 Typical Capacitance Stored Energy

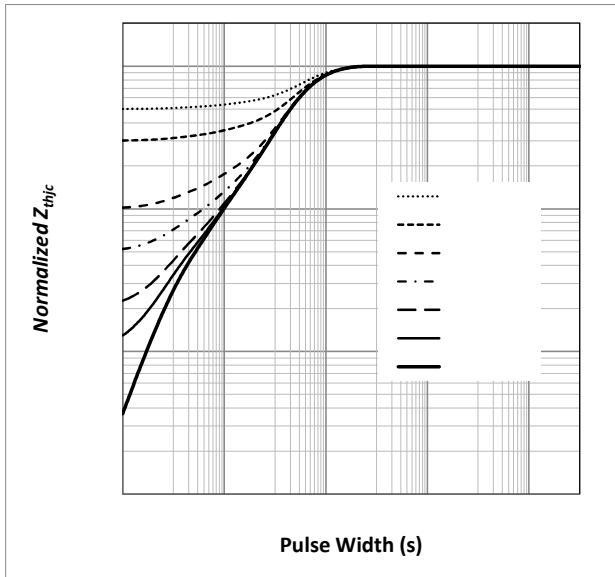


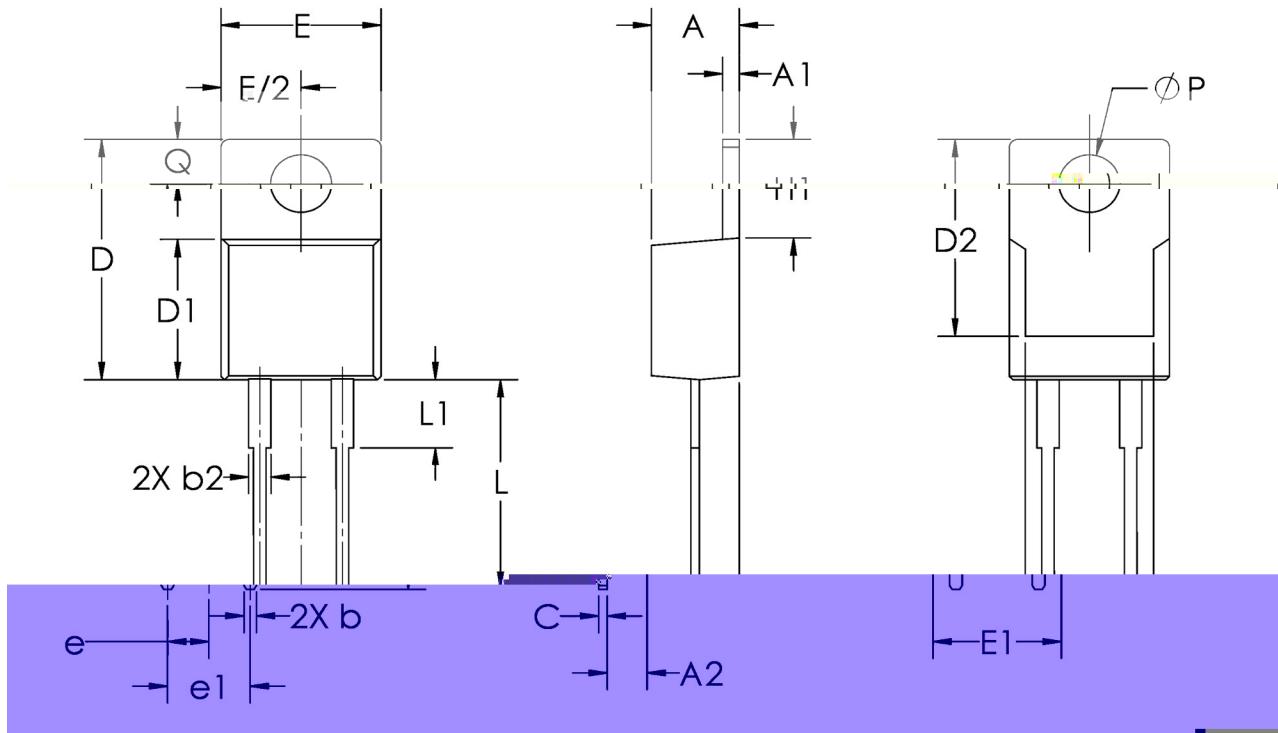
Fig. 9 Transient Thermal Impedance

## 650V SiC Schottky Diode

**Amp +™**

**GP3D010A065A**

## Package Dimensions TO-220-2L



## Revision History


M

## RoHS Compliance

b	Q	b	b	b	b	b	b	b	b	Q
b	b	b	b	b	b	b	b	b	b	Q
b	b	b	b	b	b	b	b	b	b	b

## REACH Compliance

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