<b>'</b> 6	+
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# 650V SiC Schottky Diode

VDC	650 V
Q <sub>c</sub>	36 nC
I <sub>F</sub>	12 A
T <sub>j</sub> ,max	175 °C

6	В	Features	Package	Package				
6 <sup>B</sup> Benefit		Benefits	Pin 4	Pin 2	Case O O Pin 1 Pin 2			
			Part #	Package	Marking			
6	В	Applications	GP3D012A065B	TO-247-2L	3D012A065			



### **Maximum Ratings**

Characteristics	Symbol	Conditions	Values	Unit
	ſ			

Notes:

#### **Electrical Characteristics**

Characteristics	Symbol	Symbol Conditions	Values			l lmi4
Cital acteristics	Syllibol					Unit
						μ

#### **Thermal Characteristics**

Characteristics	Symbol	Conditions	Values		Unit
Citalacteristics	Syllibol	Conditions			Oilit

### **Typical Performance**

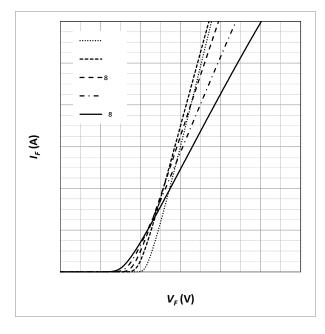


Fig. 1 Forward Characteristics

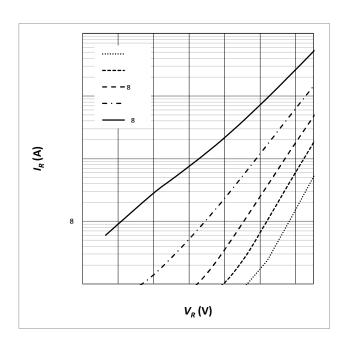


Fig. 2 Reverse Characteristics

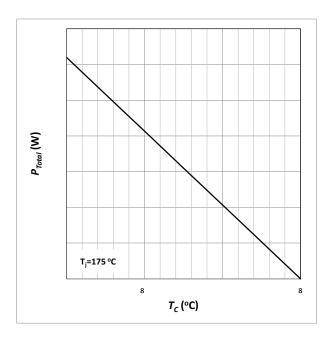
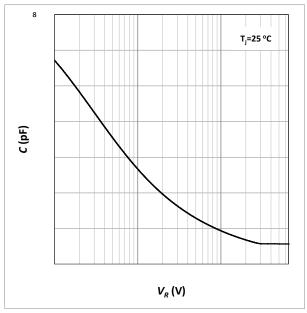


Fig. 3 Power Derating

Fig. 4 Current Derating





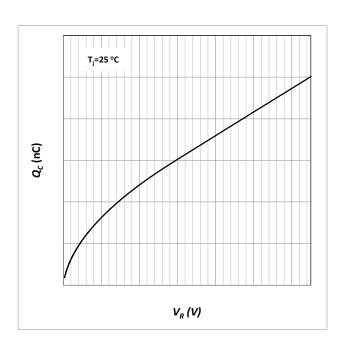
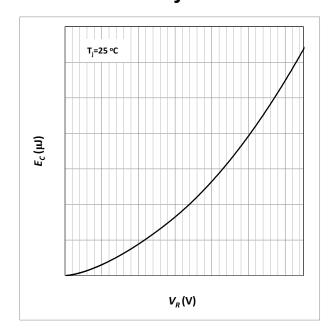


Fig. 6 Capacitive Charge



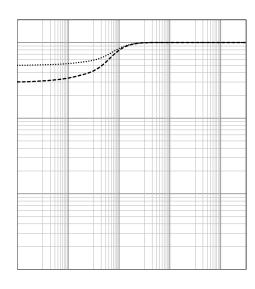


Fig. 7 Typical Capacitance Stored Energy

Fig. 8 Transient Thermal Impedance

## Package Dimensions TO-247-2L

Curren	Millimeters		Inches		
Sym	Min	Max	Min	Max	

RoHS Compliance

**REACh Compliance** 

# **Mouser Electronics**

**Authorized Distributor** 

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SemiQ:

GP3D012A065B