



## 650V SiC Schottky Diode

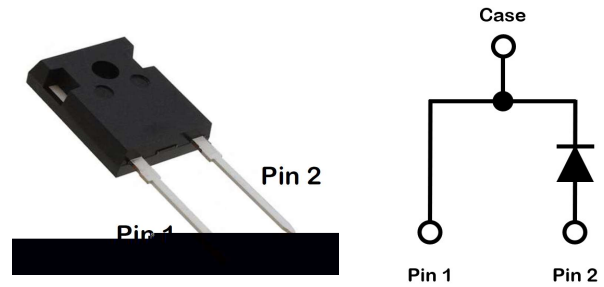
**GP3D030A065B**

VDC	650 V
$Q_C$	77 nC
$I_F$	30 A
$T_{j,max}$	175 °C

### Amp+™ Features

### Package

### Amp+™ Benefits



### Amp+™ Applications

Part #	Package	Marking
GP3D030A065B	TO-247-2L	3D030A065



### Maximum Ratings

Characteristics	Symbol	Conditions	Values	Unit
	$\int$			

Notes:

Typical Characteristics

Characteristic	Symbol	Condition	Unit
Supply Current	$I_{CC}$	$V_{DD} = 1.8V$ $V_{SS} = 0V$ $f_{CLK} = 10MHz$ $T_A = 0^\circ C$	mA
Supply Current	$I_{CC}$	$V_{DD} = 1.8V$ $V_{SS} = 0V$ $f_{CLK} = 10MHz$ $T_A = 25^\circ C$	mA
Supply Current	$I_{CC}$	$V_{DD} = 1.8V$ $V_{SS} = 0V$ $f_{CLK} = 10MHz$ $T_A = 55^\circ C$	mA
Supply Current	$I_{CC}$	$V_{DD} = 1.8V$ $V_{SS} = 0V$ $f_{CLK} = 10MHz$ $T_A = -40^\circ C$	mA
Supply Current	$I_{CC}$	$V_{DD} = 1.8V$ $V_{SS} = 0V$ $f_{CLK} = 10MHz$ $T_A = -55^\circ C$	mA

Typical Characteristics

Characteristic	Symbol	Condition	Values	Unit
Propagation Delay	$t_{PD}$	$V_{DD} = 1.8V$ $V_{SS} = 0V$ $f_{CLK} = 10MHz$ $T_A = 25^\circ C$	10	ns

Typical Performance

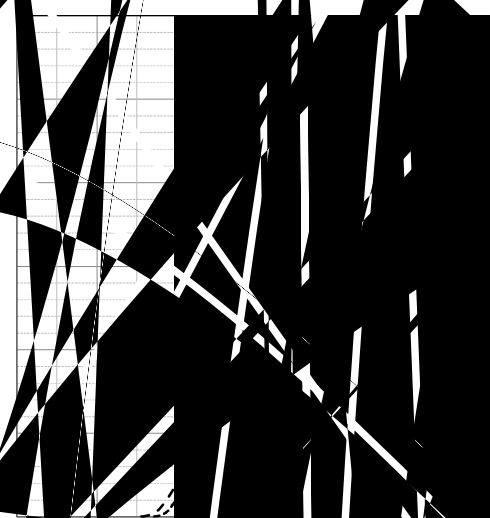


Fig. 1 Forward Characteristics

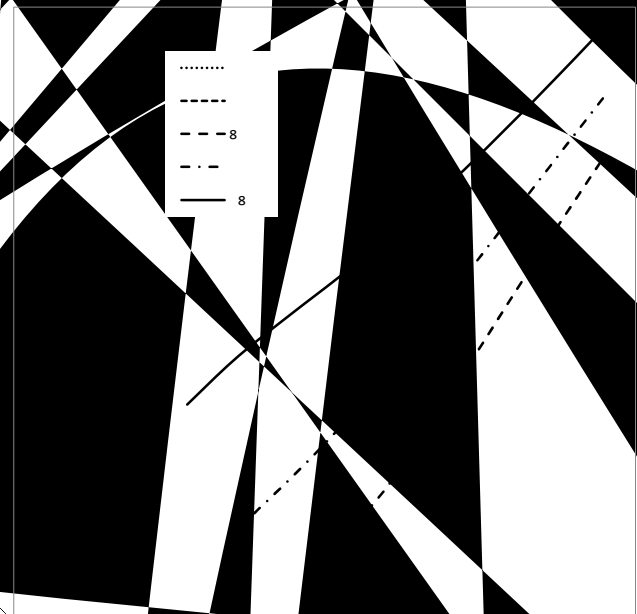


Fig. 2 Reverse Characteristics

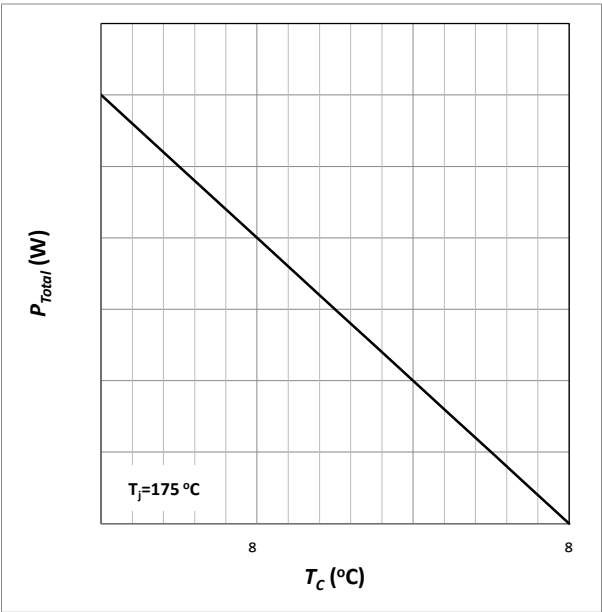


Fig. 3 Power Derating

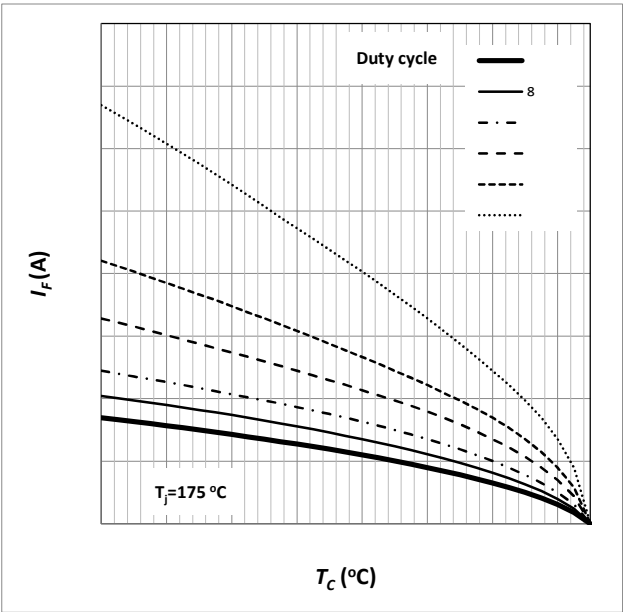


Fig. 4 Current Derating

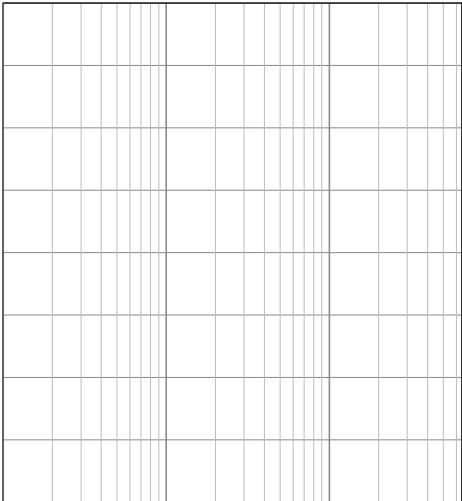


Fig. 5 Capacitance

Fig. 6 Capacitive Charge

**GP3D030A065B**

[illegible]

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***Amp+™***

***GP3D030A065B***

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RoHS Compliance

REACH Compliance