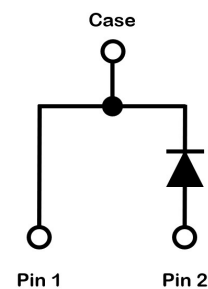
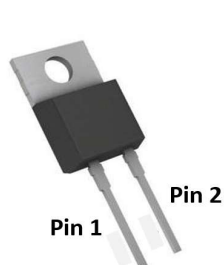


VDC	650 V
Q <sub>C</sub>	20 nC
I <sub>F</sub>	8 A
T <sub>j,max</sub>	175 °C

## Features

## Package

## Benefits



## Applications

Part #	Package	Marking
GP3D008A065A	TO-220-2L	3D008A065



## Maximum Ratings

Characteristics	Symbol	Conditions	Values	Unit
	$\int$			

### Notes:

\* EAS of 38 mJ is based on starting T<sub>j</sub> = 25°C, L = 1.0 mH, I<sub>AS</sub> = 8.72 A, V = 50 V.

\*\* Typical R<sub>thJC</sub> used

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Electrical Characteristics

Characteristics	Symbol	Conditions	Values			Unit
		μ				
						μ

Thermal Characteristics

Characteristics	Symbol	Conditions	Values			Unit

Typical Performance

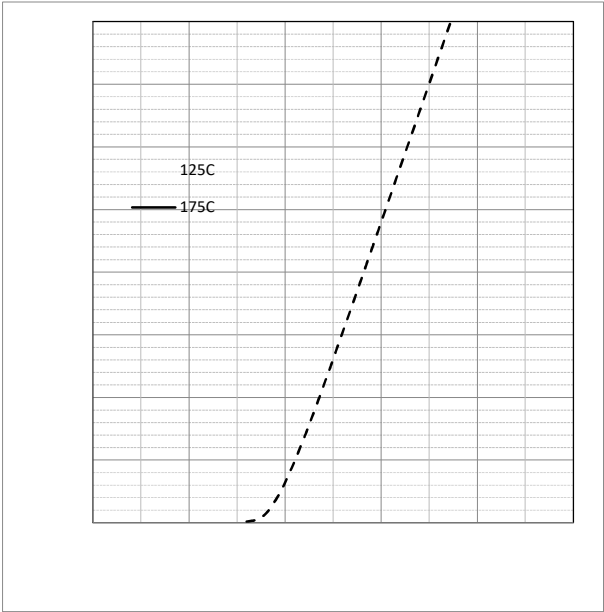


Fig. 1 Forward Characteristics



Fig. 2 Reverse Characteristics

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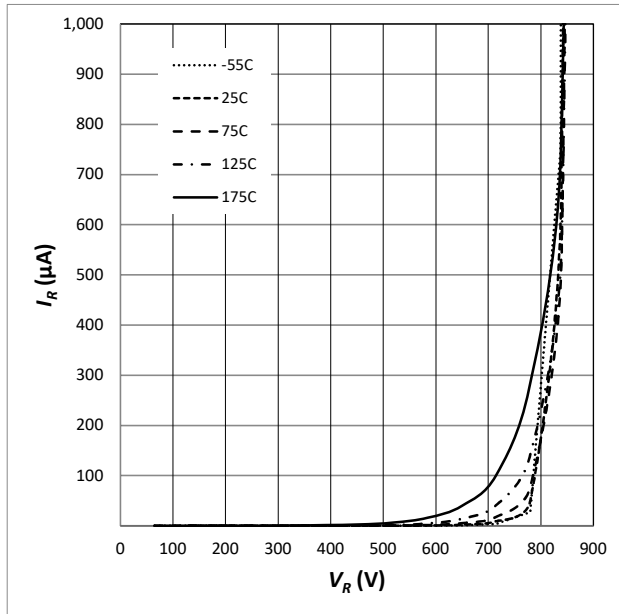


Fig. 3 Reverse Characteristics

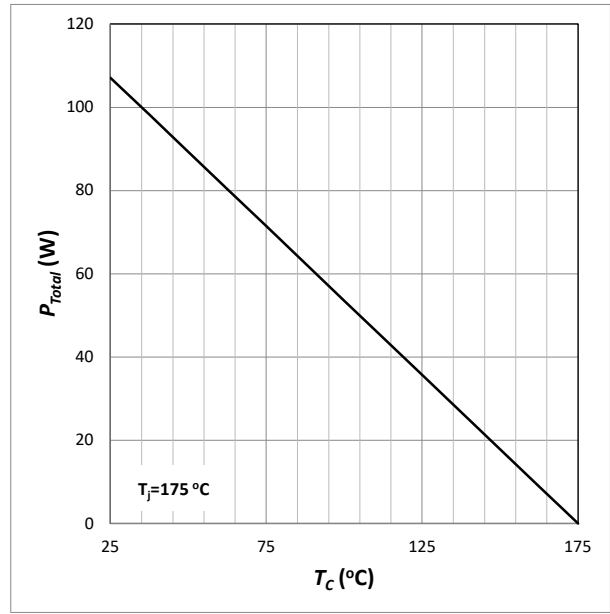


Fig. 4 Power Derating

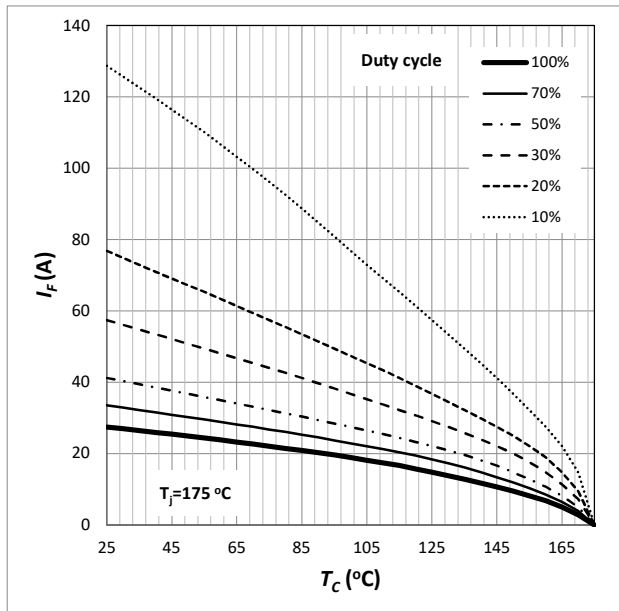


Fig. 5 Capacitance

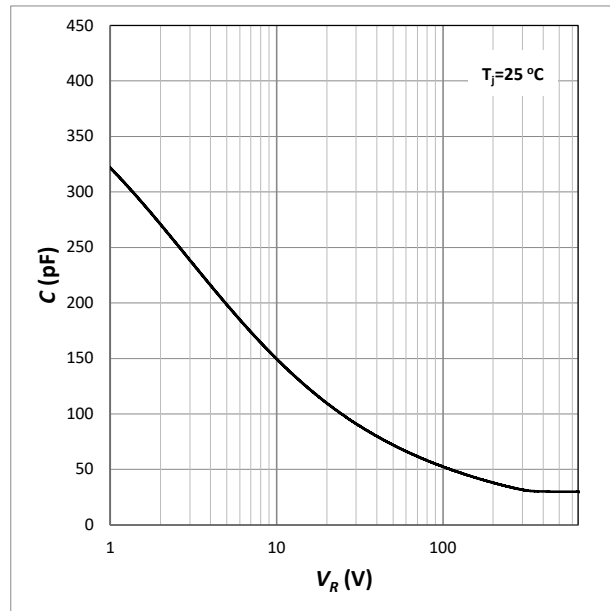


Fig. 6 Capacitance

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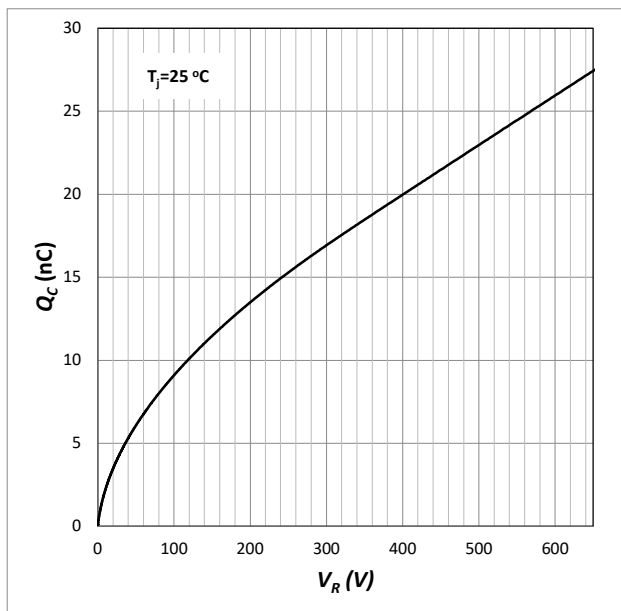


Fig. 7 Capacitive Charge

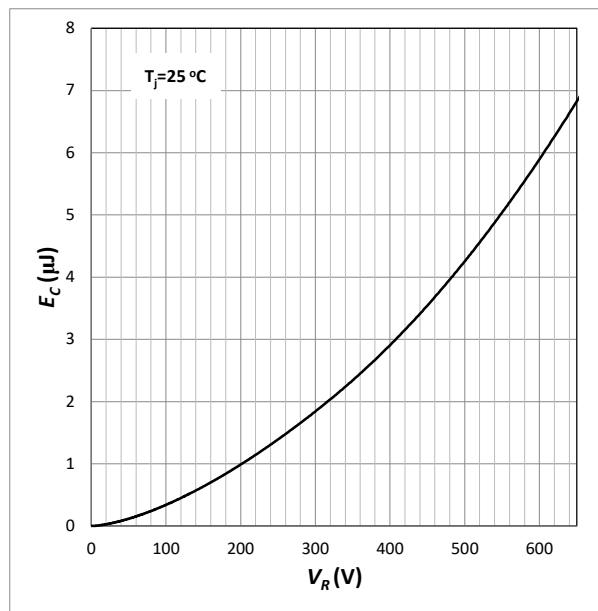


Fig. 8 Typical Capacitance Stored Energy

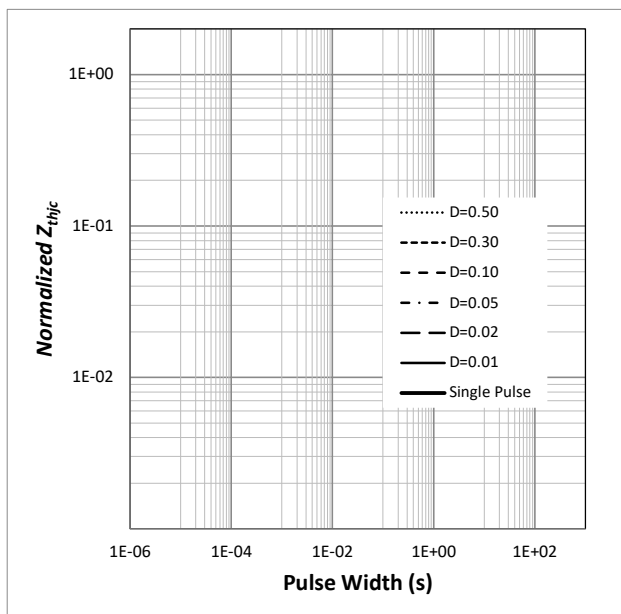


Fig. 9 Transient Thermal Impedance

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[illegible]

## RoHS Compliance

The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2011/65/EC (RoHS2), as implemented March, 2013. RoHS Declarations for this product can be obtained from the Product Documentation sections of [www.SemiQ.com](http://www.SemiQ.com).

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