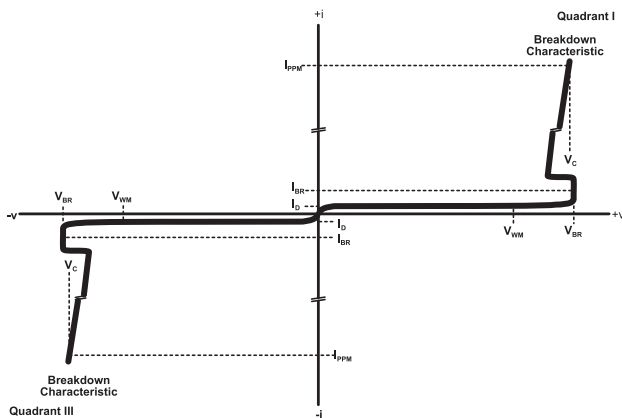
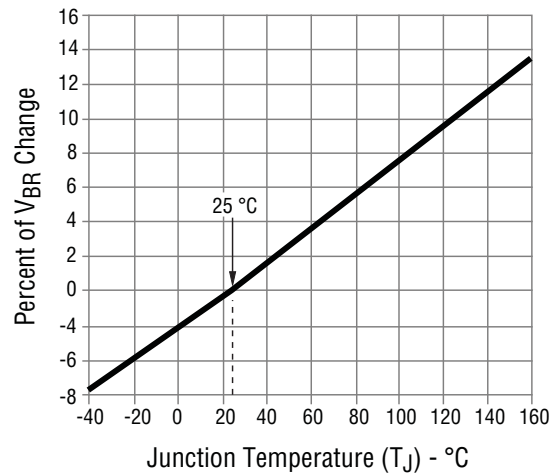
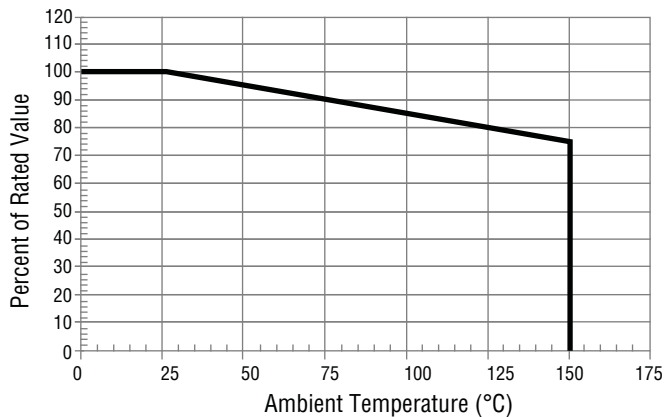


## Performance Graphs

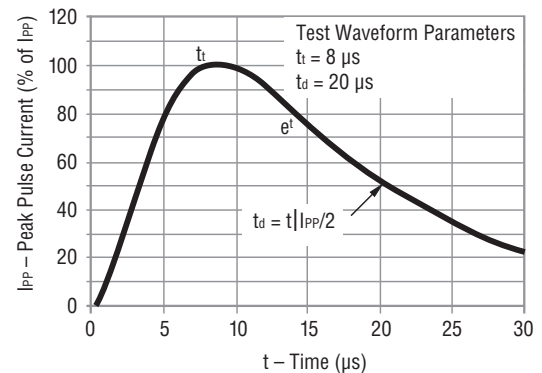
## V-I Characteristic

Typical  $V_{BR}$  vs. Junction Temperature

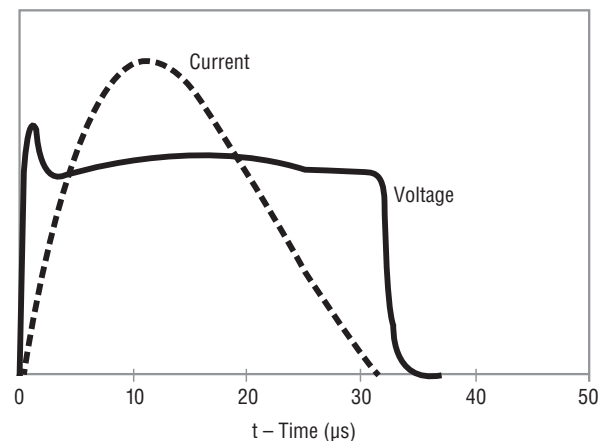
## Typical Surge Current Derating



This graph shows the typical device surge current derating versus ambient temperature when subjected to the 8/20  $\mu$ s current waveform per the IEC 61000-4-5 specification. This device is not intended for continuous operation at temperatures above 125 °C.

Current 8/20  $\mu$ s Waveform per IEC 61000-4-5

## Typical Waveform Under Surge



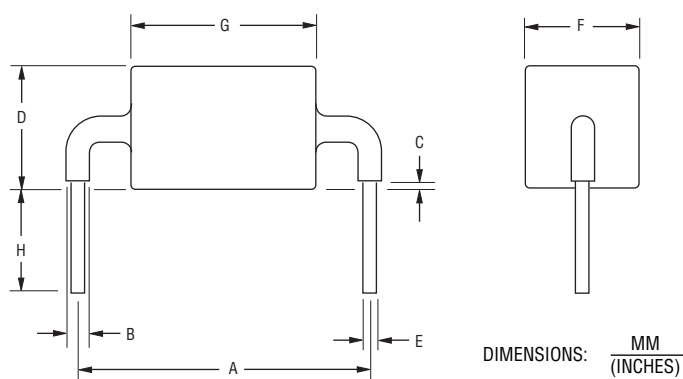
Specifications are subject to change without notice.  
Users should verify actual device performance in their specific applications.  
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# PTVS6-xxxC-TH Series High Voltage, High Current TVS Diodes

**BOURNS®**

## Product Dimensions

Epoxy encapsulation materials conform to UL 94V-0. Silver plated lead finish conforms to the solderability requirements of JESD22-B102, Pb free solder. Package dimensions are shown below:



Dim.	PTVS6-380C-TH	PTVS6-430C-TH
A	$24.15 \pm 0.72$ (0.951 $\pm$ 0.028)	
B	$2.40 \pm 0.50$ (0.094 $\pm$ 0.020)	
C	$1.75 \pm 1.25$ (0.069 $\pm$ 0.049)	
D	$12.00$ (0.472) Max.	
E	$1.25 \pm 0.05$ (0.049 $\pm$ 0.002)	
F	$11.50$ (0.453) Max.	
G	$16.50$ (0.650) Max.	
H	$6.00 \pm 1.00$ (0.236 $\pm$ 0.039)	

## Typical Part Marking

PTVS6-380C-TH .....6380  
PTVS6-430C-TH .....6430

## How to Order

**PTVS 6 - 380 C - T H**

Series \_\_\_\_\_  
PTVS = Power TVS High Current Diode

Peak Current Rating \_\_\_\_\_  
6 = 6 kA

Repetitive Standoff Voltage \_\_\_\_\_  
380 = 380 V  
430 = 430 V

Suffix \_\_\_\_\_  
C = Bidirectional Device

Package \_\_\_\_\_  
T = Through-Hole

Temperature \_\_\_\_\_  
H = High Temperature Series

REV. 11/15

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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