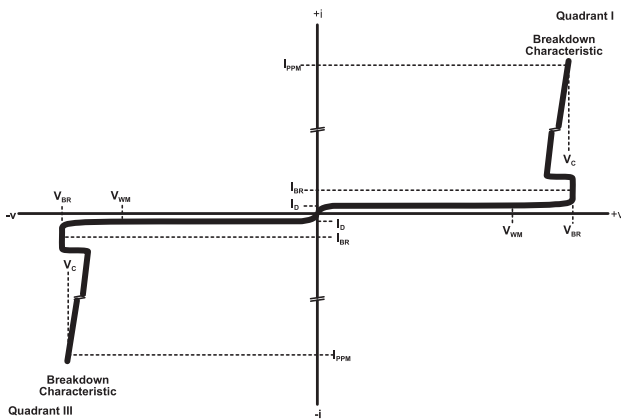
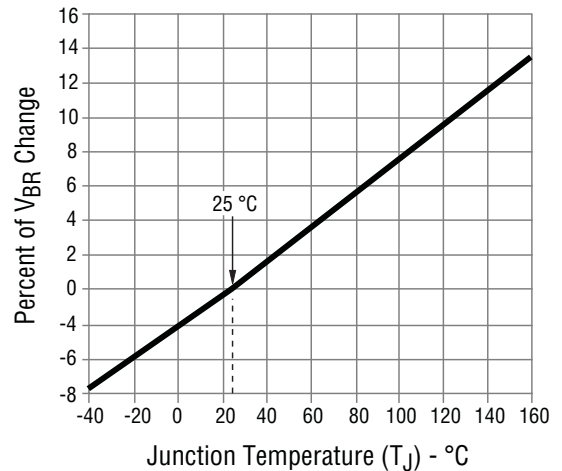
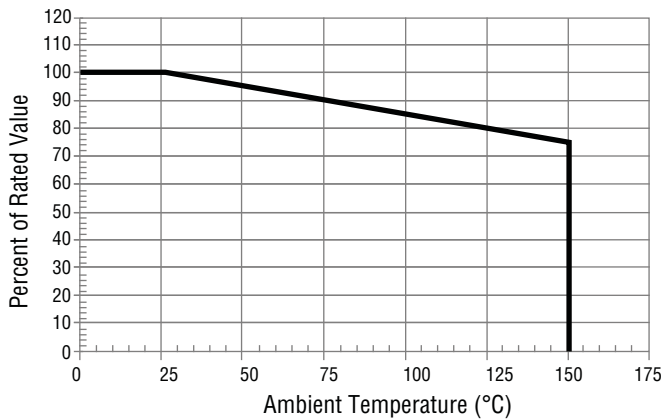


Performance Graphs

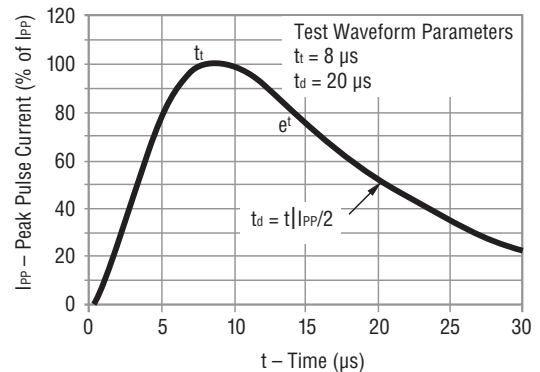
V-I Characteristic

Typical V_{BR} vs. Junction Temperature

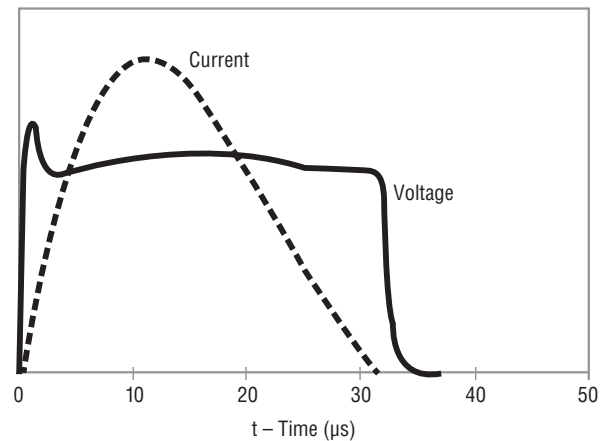
Typical Surge Current Derating



This graph shows the typical device surge current derating versus ambient temperature when subjected to the 8/20 μ 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 μ s Waveform per IEC 61000-4-5

Typical Waveform Under Surge

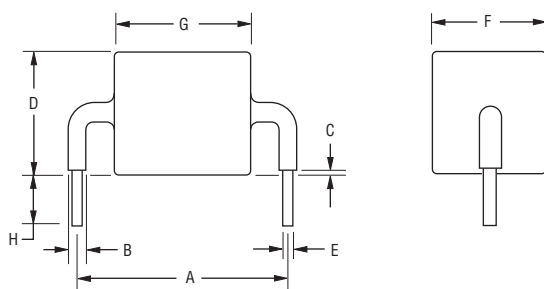


PTVS10-xxxC-TH Series High Voltage, High Current TVS Diodes

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:



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Dim.	PTVS10-170C-TH	PTVS10-320C-TH	PTVS10-380C-TH	PTVS10-430C-TH	PTVS10-470C-TH
A	$\frac{24.15 \pm 0.72}{(0.951 \pm 0.028)}$				
B	$\frac{2.40 \pm 0.50}{(0.094 \pm 0.020)}$				
C	$\frac{1.75 \pm 1.25}{(0.069 \pm 0.049)}$				
D	$\frac{15.00}{(0.591)}$ Max.				
E	$\frac{1.25 \pm 0.05}{(0.049 \pm 0.002)}$				
F	$\frac{14.00}{(0.551)}$ Max.				
G	$\frac{8.80}{(0.346)}$ Max.	$\frac{14.60}{(0.575)}$ Max.	$\frac{16.50}{(0.650)}$ Max.	$\frac{16.50}{(0.650)}$ Max.	$\frac{19.40}{(0.764)}$ Max.
H	$\frac{6.00 \pm 1.00}{(0.236 \pm 0.039)}$				

Typical Part Marking

PTVS10-170C-TH	10170
PTVS10-320C-TH	10320
PTVS10-380C-TH	10380
PTVS10-430C-TH	10430
PTVS10-470C-TH	10470

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The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

How to Order

Series	PTVS 10 - 380 C - T H
PTVS = Power TVS High Current Diode	
Peak Current Rating	10 = 10 kA
Repetitive Standoff Voltage	170 = 170 V 320 = 320 V 380 = 380 V 430 = 430 V 470 = 470 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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