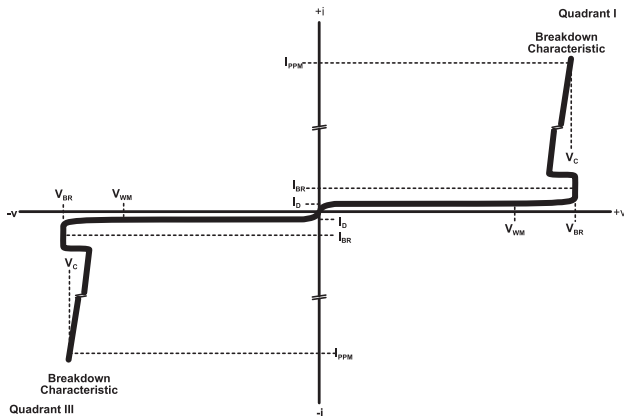


# PTVS10-086C-M High Current TVS Diodes

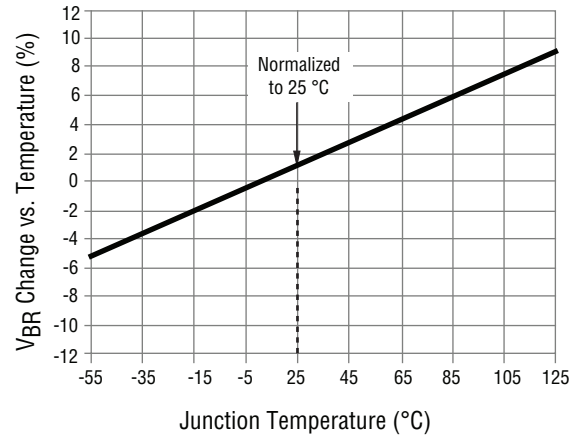
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## Performance Graphs

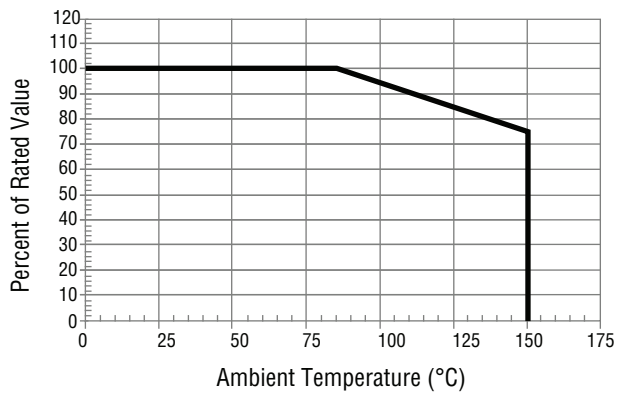
### V-I Characteristic



### Typical $V_{BR}$ vs. Junction Temperature

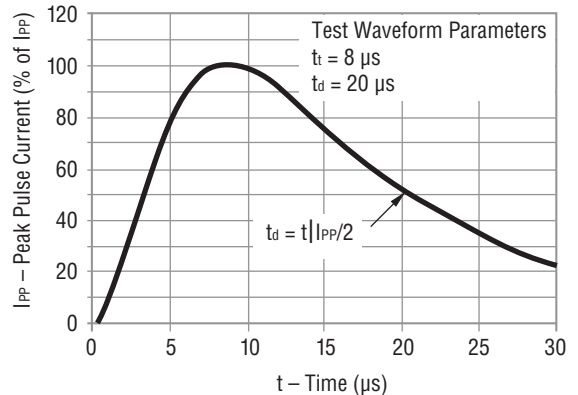


### Typical Surge Current Derating



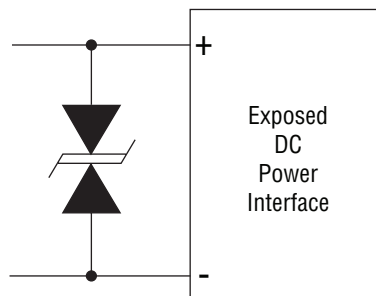
This graph shows the typical device surge current derating versus ambient temperature when subjected to the 8/20  $\mu$ s current waveform per the IEC 61000-4-5 specification. This device is not intended for continuous operation at temperatures above 125 °C.

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



## Application

A typical application for Power TVS products includes DC power line protection.



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

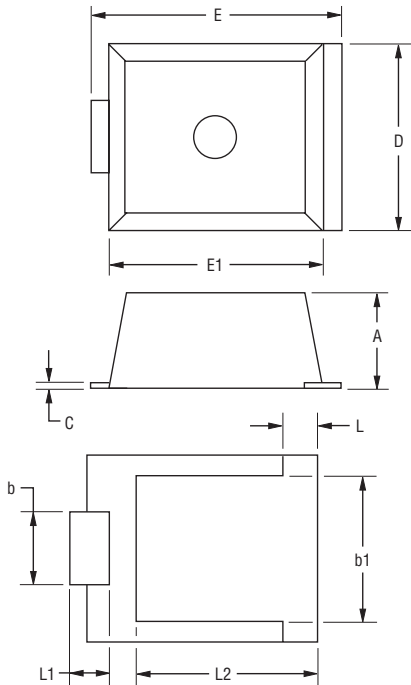
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# PTVS10-086C-M High Current TVS Diodes

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## Product Dimensions

This is an RoHS compliant\*, molded package with 100 % Sn on the terminations, and a flammability rating of UL 94-V-0.

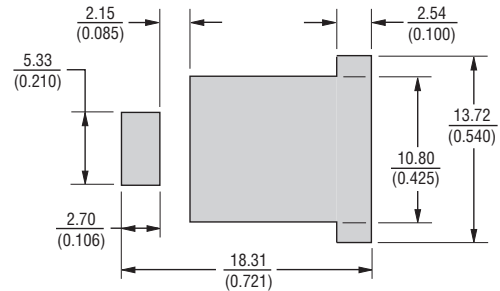


Dim.	Min.	Max.
A	6.94 (0.273)	7.24 (0.285)
b	5.15 (0.203)	5.65 (0.222)
b1	10.55 (0.415)	11.05 (0.435)
C	0.37 (0.015)	0.45 (0.018)
D	13.45 (0.530)	14.60 (0.575)
E	17.85 (0.703)	18.72 (0.737)
E1	15.50 (0.610)	16.05 (0.632)
L	2.30 (0.091)	2.80 (0.110)
L1	2.50 (0.098)	2.90 (0.114)
L2	13.16 (0.518)	13.76 (0.518)

Mold flash or protrusion shall not exceed 0.25 mm.

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

## Recommended Pad Layout



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

## Typical Part Marking

PTVS10-086C-M ..... 10086

## How to Order

Series \_\_\_\_\_ PTVS 10 - 086 C-M  
 PTVS = Power TVS High Current Diode  
 Peak Current Rating \_\_\_\_\_  
 10 = 10 kA  
 Repetitive Standoff Voltage \_\_\_\_\_  
 086 = 86 V  
 Suffix \_\_\_\_\_  
 C = Bidirectional Device  
 M = Surface Mount

## Environmental Specifications

Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... 3B

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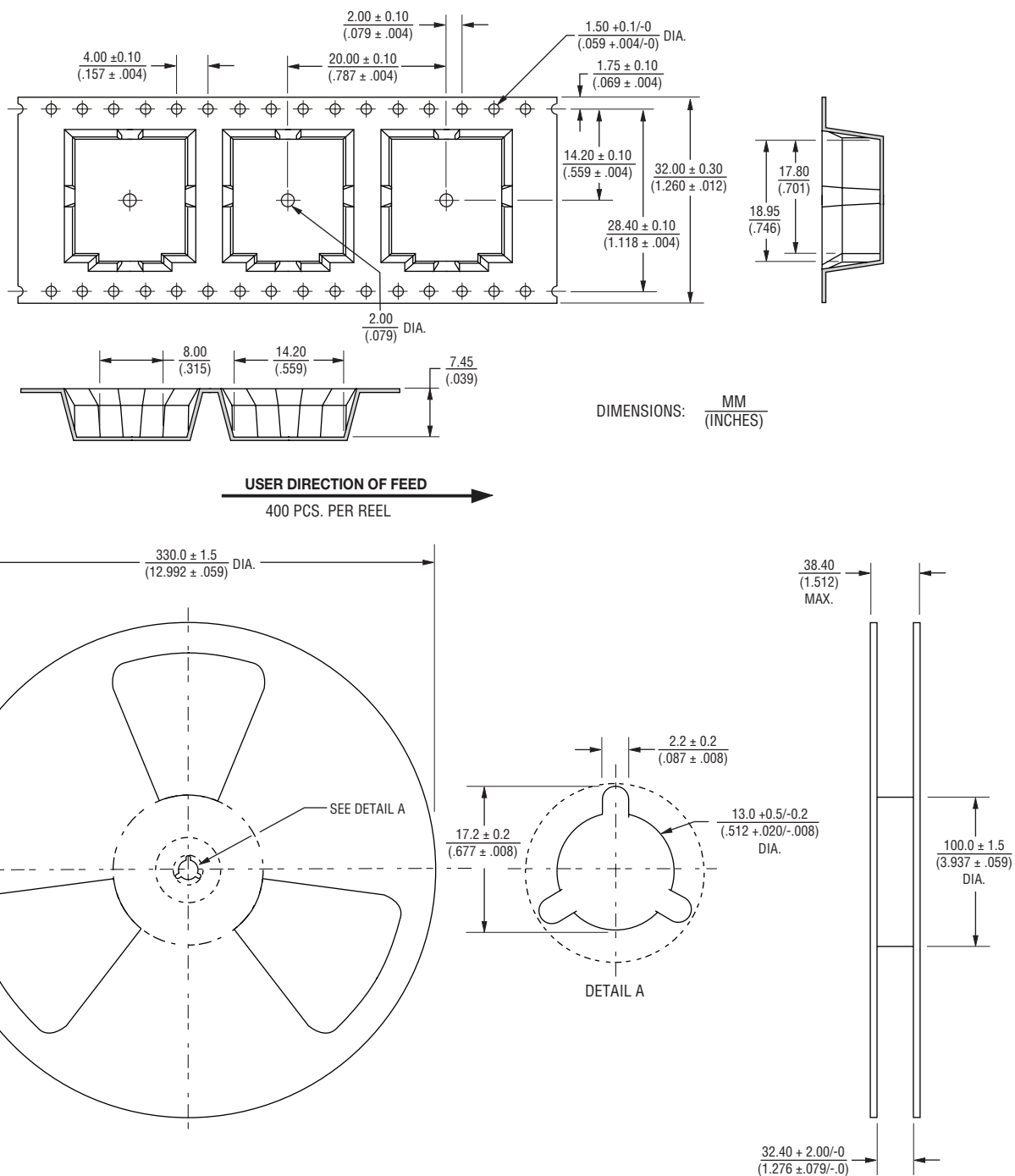
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# PTVS10-086C-M High Current TVS Diodes

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## Packaging Information

The product will be dispensed in tape and reel format (see diagram below).



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