

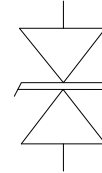
Features

- 10 kA, 8/20 μ s surge capability
- 1 kA, 10/350 μ s surge capability
- Low clamping voltage under surge
- Bidirectional TVS
- Surface mount package
- RoHS Compliant



Application

- High power DC bus protection



Schematic Diagram

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$, Unless otherwise specified)

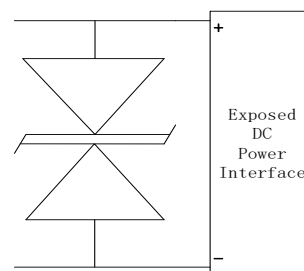
Parameter	Symbol	Value	Unit
Repetitive Standoff Voltage	V_{WM}	86	V
Peak Current Rating per 8/20 μ s IEC 61000-4-5	I_{PPM}	10	kA
Peak Current Rating per 10/350 μ s	I_{PPM}	1	kA
Operating Junction Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_S	-55 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$, Unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Standby Current	I_D	$V_D = V_{WM}$			10	μA
Breakdown Voltage	V_{BR}	$I_{BR} = 10 \text{ mA}$	95	100		V
Clamping Voltage	V_C	$I_{PP} = 10 \text{ kA}$ (8/20 μ s waveshape)			157	V
V(BR) Temperature Coefficient				0.1		$\%/^\circ\text{C}$
Capacitance	C	F = 10 kHz, $V_d = 1 \text{ Vrms}$		5		nF

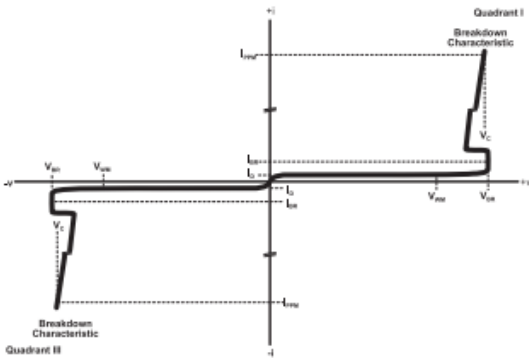
Application

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

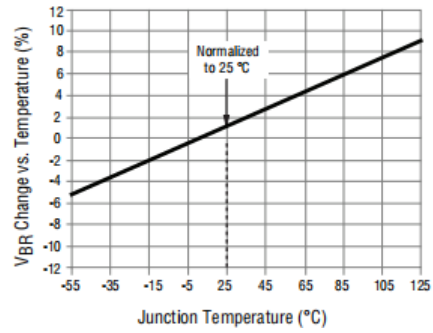


Performance Graphs

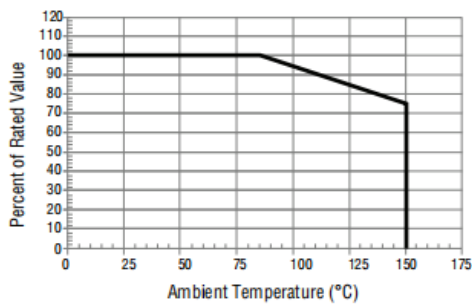
V-I Characteristic



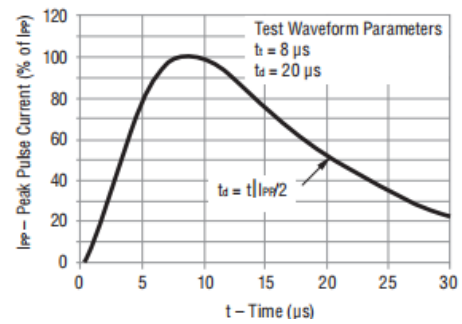
Typical VBR vs. Junction Temperature



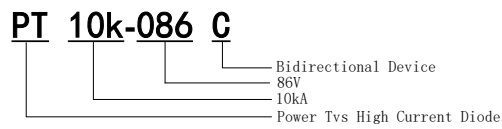
Typical Surge Current Derating



Current 8/20 μs Waveform per IEC 61000-4-5

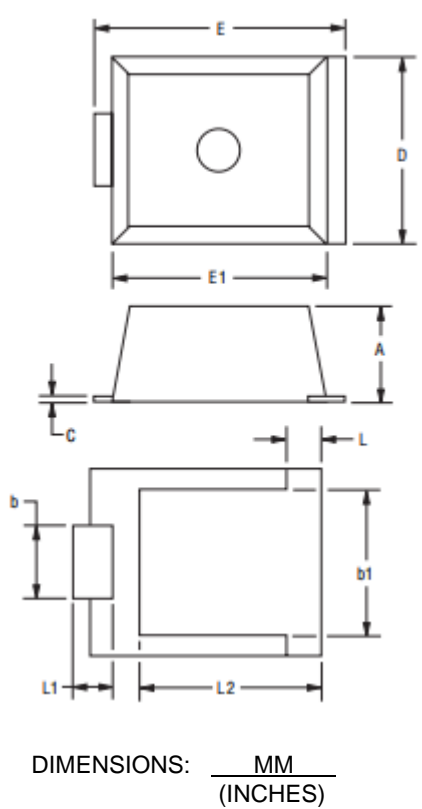


How TO Order

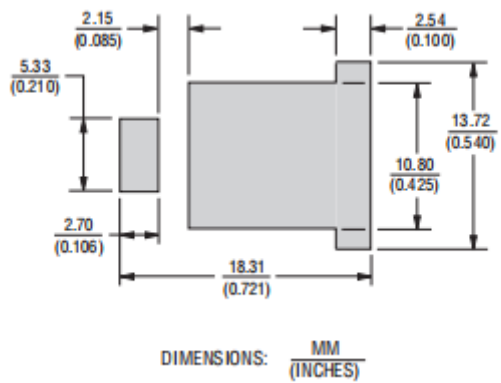


Product Dimensions

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



Recommended Pad Layout



Packaging Information

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

