

Features

- 10 kA, 8/20 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)

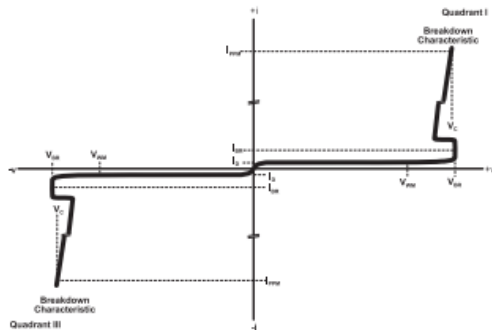
Parameter	Symbol	Value	Unit
Repetitive Standoff Voltage	V_{WM}	76	V
Peak Current Rating per 8/20 μ s IEC 61000-4-5	I_{PPM}	10	kA
Operating Junction Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_S	-55 to +150	$^{\circ}\text{C}$

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

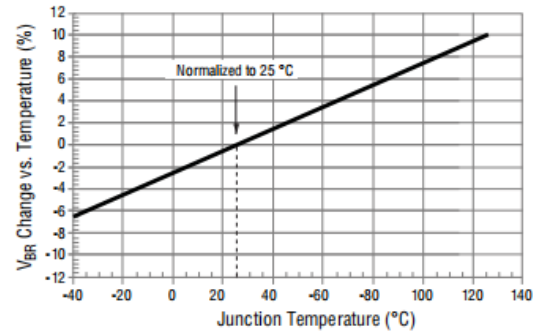
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Standby Current	I_D	$V_D = V_{WM}$			10	μA
Breakdown Voltage	$V_{(BR)}$	$I_{BR} = 10 \text{ mA}$	85	92	95	V
Clamping Voltage	V_C	$I_{PP} = 10 \text{ kA (8/20 } \mu\text{s)}$			140	V
$V_{(BR)}$ Temperature Coefficient				0.1		$\%/^{\circ}\text{C}$
Capacitance	C	$F = 10 \text{ kHz, } V_d = 1 \text{ Vrms}$		5.6		nF

Performance Graphs

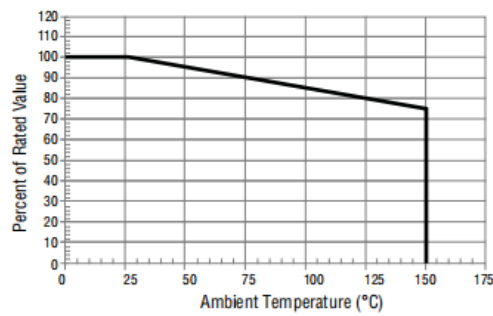
V-I Characteristic



Percentage VBR Change vs. Junction Temperature



Typical Surge Current Derating

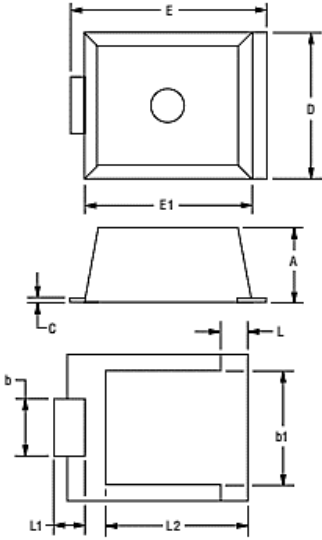


How TO Order

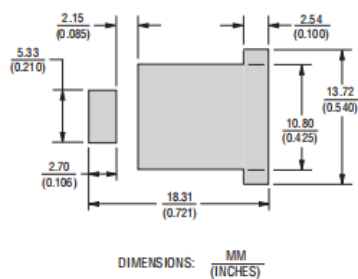
PT 10k-076 C

- PT: Bidirectional Device
- 10k: 76V
- 076: 10kA
- C: Power Tvs High Current Diode

Product Dimensions

 DIMENSIONS: <u>MM</u> (INCHES)	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).

