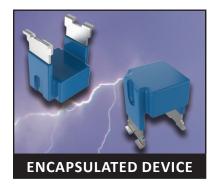
HIGH CURRENT TVS DIODES



DESCRIPTION

The PDTVSxxCA Series of high current bidirectional TVS diodes are designed for use in high powered DC bus clamping applications. These devices offer bidirectional port protection and are available in 58 and 76 Volts. The PDTVSxxCA Series are IEC 61000-4-5 complaint.

APPLICATIONS

• High Power DC Bus

FEATURES

- · UL Registered
- Compatible with IEC 61000-4-5
- 3kA, 8/20μs Surge Capability
- Low Clamping Voltage Under Surge
- Bidirectional
- Surface Mount Package
- RoHS Complaint

MECHANICAL CHARACTERISTICS

- Epoxy Encapsulated Device
- Flammability Rating UL 94V-0
- Marking: Logo, Date Code & Marking Code

Bidirectional



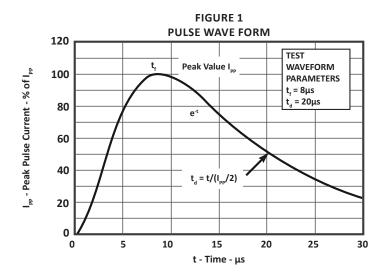
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified							
PARAMETER	SYMBOL	VALUE	UNITS				
Operating Junction Temperature	T _J	-55 to 125	°C				
Storage Temperature	T _s	-55 to 150	°C				
Peak Current Rating per 8/20μs IEC 61000-4-5	I _{PPM}	3	kA				

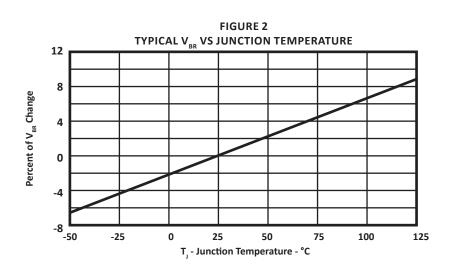
TYPICAL DEVICE CHARACTERISTICS

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified									
PART NUMBER	MARKING CODE	REPETITIVE STAND-OFF VOLTAGE V _{WM}	MINIMUM BREAKDOWN VOLTAGE V _(BR) @ 10mA	MAXIMUM STANDBY CURRENT I _D @ V _{WM}	MAXIMUM CLAMPING VOLTAGE (Note 1) @ I _{pp} = 3kA V _c	TEMPERATURE COEFFICIENT OF V _(BR) qV _(BR) mV/°C	TYPICAL CAPACITANCE @1V, 10kHz C		
		VOLTS	VOLTS	μΑ	VOLTS	mV/°C	nF		
PDTVS58CA	58V	58.0	64.0	5	110	0.1	2.3		
PDTVS76CA	76V	76.0	85.0	5	140	0.1	1.7		

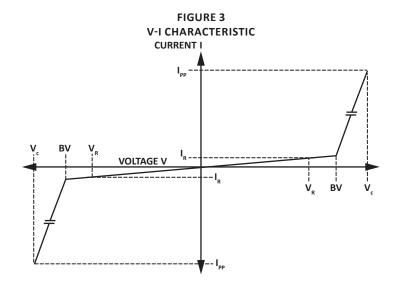
NOTE

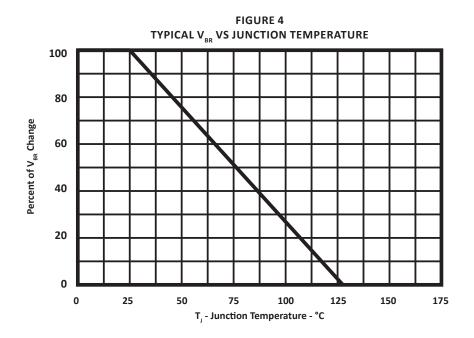
^{1.} V_c measured at the time which is conincident with the peak surge current.





TYPICAL DEVICE CHARACTERISTICS





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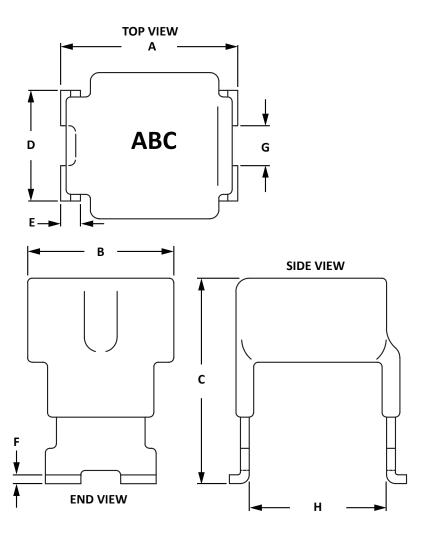


PACKAGE INFORMATION

OUTLINE DIMENSIONS									
DIM	MILLIN	METERS	INCHES						
	MIN	MAX	MIN	MAX					
Α	9.78	10.50	0.385	0.415					
В	7.87	8.89	0.310	0.350					
С	11.43	12.46	0.450	0.490					
D	6.22	6.47	0.245	0.255					
Е	1.02	1.27	0.040	0.050					
F	0.	51	0.0)20					
G	2.17	2.41	0.085	0.095					
Н	7.37	8.13	0.290	0.320					

NOTES

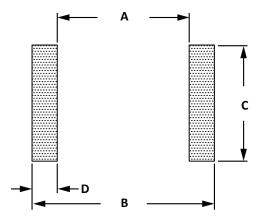
1. Dimensions are exclusive of mold flash and metal burrs.



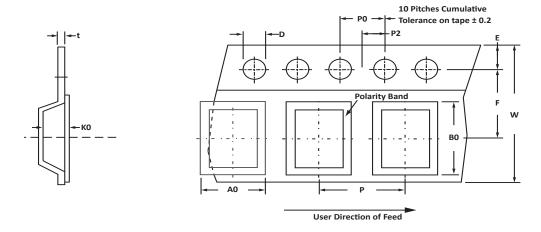
PAD LAYOUT DIMENSIONS							
DIM	MILLIMETERS	INCHES					
	NOMINAL	NOMINAL					
А	7.57	0.298					
В	10.46	0.412					
С	6.65	0.262					
D	1.45	0.057					
110==0							

NOTES

1. Decimal tolerences: ±0.003"



TAPE AND REEL



	SPECIFICATIONS												
	REEL DIA.	TAPE WIDTH	A0	В0	КО	D	E	F	w	P0	P2	Р	tmax
Γ	330mm (13")	12mm	7.82 ± 0.3	10.60 ± 0.3	12.50 ± 0.2	1.50 ± 0.1	1.75 ± 0.1	11.50 ± 0.05	24.00 ± 0.3	4.00 ± 0.1	2.00 ± 0.1	16.00 ± 0.2	0.4

NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Marking on Part marking code (see page 2), date code and logo.

ORDERING INFORMATION								
BASE PART NUMBER (Voltage = xx)	LEADFREE SUFFIX	TAPE SUFFIX QTY/REEL		REEL SIZE	TUBE QTY			
PDTVSxxCA	N/A	-T13	250	13"	N/A			
This device is only available in a Lead-Free configuration.								

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COMPANY INFORMATION

COMPANY PROFILE

In business more than 30 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection that include Transient Voltage Suppressor (TVS) Arrays, Steering Diode Array Hybrids, High-power Components and Modules, as well as Steering Diodes, EMI Filter/TVS Arrays and Thyristor Surge Suppressors. These components deliver circuit protection in electronic systems from numerous overvoltage events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices is an ISO 9001 certified company.

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