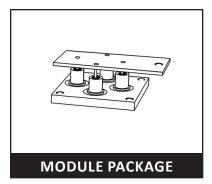
HIGH ENERGY - EXTENDED PULSE TVS



DESCRIPTION

The PPZ516/B is a high power transient voltage suppressor (TVS) designed to provide protection against long duration switching transient threats. This heavy duty device is constructed using hermetically sealed TVS subassemblies and is suited for DC applications that include heavy duty motors, generators, or where DC power is being switched on and off at frequent intervals.

FEATURES

- Compatible with IEC 61000-4-5 (Surge): 95A, 8/20μs Level 3(Line-Gnd) & Level 4(Line-Line)
- 20,000 Watts Peak Pulse Power per Line (tp = 1ms)
- Unidirectional & Bidirectional Configurations
- Each Device 100% Tested

MECHANICAL CHARACTERISTICS

- Hermetically Sealed Sub-Assemblies
- Approximate Weight: 38 grams
- Flammability Rating UL 94V-0

APPLICATIONS

- Remote DC Power Supply, Base Station & Microwave Protection
- Electric Drive Motors & Controls
- Mobile Electronics Operating in Harsh Environments

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified					
PARAMETER	SYMBOL	VALUE	UNITS		
Peak Pulse Power (tp = 1ms) - See Figure 1	P _{PP}	20	kilowatts		
Operating Temperature	T _L	-55 to 150	°C		
Storage Temperature	T _{stg}	-55 to 150	°C		
Steady State Power Dissipation (derate 2.33W/°C)	P _D	350	Watts		

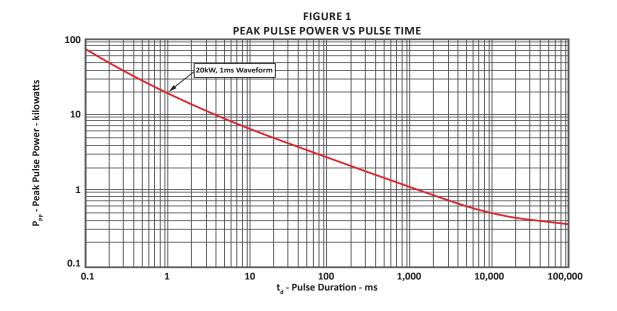
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER (Notes 1 & 2)	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE		MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	PEAK PULSE CURRENT (Fig. 2)
	V _{wm} VOLTS	V _(BR) VOLTS	@۱ _, mA	@ I _{PPM} V _C VOLTS	@V _{wм} Ι _D μΑ	I _{PPM} AMPS
PPZ516 & PPZ516B	14	16	18	20	40	200

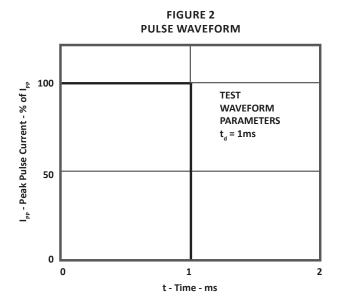
NOTE

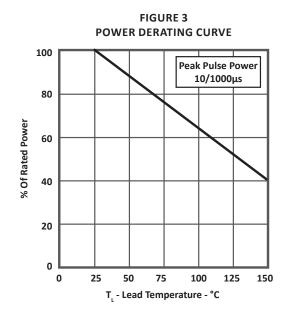
- 1. Maximum VF = 3.5V @ 100A, 8.3ms (sine wave).
- 2. PPZ516 is unidirectional. PPZ516B is bidirectional.

05633.R0 4/21 Page 1 ISO 9001: 2015 CERTIFIED

TYPICAL DEVICE CHARACTERISTICS



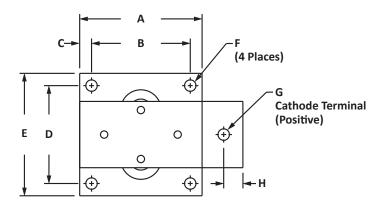


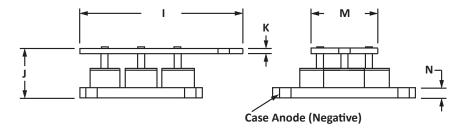




PACKAGE INFORMATION

OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INCHES		
ווועו	MIN	MAX	MIN	MAX	
Α	35.56	40.64	1.40	1.60	
В	27.94	33.02	1.10	1.30	
С	3.56	4.06	0.14	0.16	
D	27.94	33.02	1.10	1.30	
Е	35.56	40.64	1.40	1.60	
F	3.30 DIA.	3.81 DIA.	0.13 DIA.	0.15 DIA.	
G	3.30 DIA.	3.81 DIA.	0.13 DIA.	0.15 DIA.	
Н	3.56	4.06	0.14	0.16	
I	48.26	53.34	1.90	2.10	
J	-	17.02	-	0.67	
К	1.52	1.78	0.060	0.070	
М	20.32	20.83	0.800	0.820	
N	3.05	3.30	0.120	0.130	





ORDERING INFORMATION	
BASE PART NUMBER	MARKING
PPZ516 & PPZ516B	Logo, Date Code, and Part Number

COMPANY INFORMATION

COMPANY PROFILE

In business more than 25 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products. ProTek Devices is ISO 9001:2015 certified.

CONTACT US

Corporate Headquarters

2929 South Fair Lane Tempe, Arizona 85282 USA

By Telephone

General: 602-431-8101

Sales: & Marketing: 602-414-5109 Customer Service: 602-414-5114 Product Technical Support: 602-414-5107

Bv Fax

General: 602-431-2288

By E-mail:

Asia Sales: asiasales@protekdevices.com
U.S. Sales: ussales@protekdevices.com
Distributor Sales: distysales@protekdevices.com

Customer Service: service@protekdevices.com
Technical Support: support@protekdevices.com

ProTek Devices (Asia Pacific) Pte. Ltd.

8 Ubi Road 2, #06-19

Zervex

Singapore - 408538 Tel: +65-67488312 Fax: +65-67488313

Web

www.protekdevices.com

COPYRIGHT © ProTek Devices 2021 - This literature is subject to all applicable copyright laws and is not for resale in any manner.

SPECIFICATIONS: ProTek reserves the right to change the electrical and or mechanical characteristics described herein without notice

DESIGN CHANGES: ProTek reserves the right to discontinue product lines without notice and that the final judgement concerning selection and specifications is the buyer's and that in furnishing engineering and technical assistance. ProTek assumes no responsibility with respect to the selection or specifications of such products. ProTek makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ProTek assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability without limitation special, consequential or incidental damages.

LIFE SUPPORT POLICY: ProTek Devices products are not authorized for use in life support systems without written consent from the factory.