1.300

Resistive Product Solutions

Description:

The PV Series is a line of surface mount plastic-encapsulated varistors designed to protect electronic equipment against high voltage surges in the low and medium voltage region. They offer direct SMD equivalents to 5 mm and 7 mm leaded disc varistors. The thermoplastic encapsulation is non-flammable according to the standard defined by UL94V-0. Terminations are tinned copper sheet.

PV varistors are designed exclusively for surface mounting and are available in two model sizes. These transient voltage suppressors cover operating voltages (Vrms) from 60V to 300V and feature maximum surge currents from 100A to 1200A.

Features:

- AC operating voltage (Vrms) from 60V to 300V
- DC operating voltage (Vdc) from 85V to 385V
- Insensitive to water cleaning procedures and to humidity according to the climate category 55/125/56
- +85°C continuous operating temperature
- Non-flammable thermoplastic encapsulation case according to standard UL94V-0
- 2 model sizes available: 3225 and 4032
- Dimensional and weight savings on board
- Easily solderable tinned copper terminations
- UL1449, 3rd Ed. and CSA C22.2 certified
- Halogen free
- **REACH** compliant

Electrical Specifications							
Climatic Category	55 / 125 / 56						
Operating Temperature	-40 °C to +85 °C						
Storage Temperature Range	-40 °C to +125 °C						
Threshold Voltage Temperature Coefficient	≤0.05% / °C						
Response Time	< 5 nS						

Standard Packaging Options / Quantities								
Series	Voltaga Banga (V/rma)	Chip Size						
Series	Voltage Range (Vrms)	3225	4032					
PV	60 - 150	1500	1000					
FV	175 - 300	1000	1000					

Device Ratings and Dimensions



Part Number	V _{RMS} (volts)	V _{DC} (volts)	V _n (@ 1mA) (volts)	V _C (volts)	l _c (amps)	W _{MAX} (joules)	P _{MAX} (watts)	I _{max} (8/20 μSec) (amps)	С _{түр} (@ 1kHz) (pF)	h ± 0.3 (mm)	L ± 0.5 (mm)	W ± 0.4 (mm)	t ± 0.3 (mm)
PV60K3225	60	85	100	165	5.0	3.0	0.10	400	330	1.70	8.0	6.3	3.4
PV60K4032	60	85	100	165	10.0	7.0	0.25	1,200	680	2.30	10.0	8.0	4.7
PV75K3225	75	100	120	200	5.0	4.0	0.10	400	270	1.70	8.0	6.3	3.4
PV75K4032	75	100	120	200	10.0	9.0	0.25	1,200	550	2.30	10.0	8.0	4.7

Rev Date: 3/2/2023

This specification may be changed at any time without prior notice Please confirm technical specifications before you order and/or use.



PV Series

Stackpole Electronics, Inc.

Low & Medium Voltage Plastic Encapsulated SMD Varistor

Resistive Product Solutions

Device Ratings and Dimensions (cont.)													
Part Number	V _{RMS} (volts)	V _{DC} (volts)	V _n (@ 1mA) (volts)	V _C (volts)	l _c (amps)	W _{MAX} (joules)	P _{MAX} (watts)	I _{max} (8/20 μSec) (amps)	C _{TYP} (@ 1kHz) (pF)	h ± 0.3 (mm)	L ± 0.5 (mm)	W ± 0.4 (mm)	t ± 0.3 (mm)
PV95K3225 PV95K4032	95 95	125 125	150 150	250 250	5.0 10.0	6.0 11.0	0.10 0.25	400 1.200	220 440	1.70 2.30	8.0 10.0	6.3 8.0	3.4 4.7
PV115K3225	115	150	180	300	5.0	6.5	0.10	400	180	1.70	8.0	6.3	3.4
PV115K4032 PV130K3225	115 130	150 170	180 205	300 340	10.0 5.0	13.0 7.0	0.25 0.10	1,200 400	360 160	2.30 1.70	10.0 8.0	8.0 6.3	4.7 3.4
PV130K4032	130	170	205	340	10.0	15.0	0.25	1,200	320	2.30	10.0	8.0	4.7
PV140K3225 PV140K4032	140 140	180 180	220 220	360 360	5.0 10.0	7.5 18.0	0.10 0.25	400 1,200	150 300	1.70 2.30	8.0 10.0	6.3 8.0	3.4 4.7
PV150K3225 PV150K4032	150 150	200 200	240 240	395 395	5.0 10.0	9.0 18.5	0.10 0.25	400 1.200	140 280	1.70 2.30	8.0 10.0	6.3 8.0	3.4 4.7
PV175K3225	175	225	270	455	5.0	9.5	0.10	400	120	2.30	8.0	6.3	4.7
PV175K4032 PV230K3225	175 230	225 300	270 360	455 595	10.0 5.0	21.0 10.0	0.25 0.10	1,200 400	250 95	2.30 2.30	10.0 8.0	8.0 6.3	4.7 4.7
PV230K4032	230	300	360	595	10.0	23.0	0.25	1,200	190	2.30	10.0	8.0	4.7 4.7
PV250K3225 PV250K4032	250 250	320 320	390 390	650 650	5.0 10.0	11.0 25.0	0.10 0.25	400 1,200	80 180	2.30 2.30	8.0 10.0	6.3 8.0	4.7 4.7
PV275K3225 PV275K4032	275 275	350 350	430 430	710 710	5.0 10.0	13.0 29.0	0.10 0.25	400 1.200	75 160	2.30 2.30	8.0 10.0	6.3 8.0	4.7 4.7
PV300K3225 PV300K4032	300 300	385 385	470 470	775	5.0 10.0	15.0 30.0	0.10	400	70 150	2.30 2.30	8.0 10.0	6.3 8.0	4.7 4.7



Resistive Product Solutions

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status										
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)				
PV	Low and Medium Voltage Plastic Encapsulated SMD Varistor	SMD	YES ⁽¹⁾	100% Matte Sn	Always	Always				

Note (1): RoHS Compliant by means of exemption 7c-I.

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

