

# PVR Series Type 4CA

SPD (Surge Protective Devices) – Component  
TPMOV (Thermal–Runaway Protective MOV Module)



## Introduction

TPMOV are Prosurge's core products and fully reflect our expertise and ingenuity in SPD. They have a significant advantage in abnormal over-voltage & high fault current safety to ensure industry's highest level of safety and performance. They are extensively adopted by global customers as the most crucial components for various SPD, especially type 1 and type 2 surge panels.

## Applications

- PCB Mount Application for High Quality SPDs(Surge Protective Devices)/ TVSS(Transient Voltage Surge Suppressors) Design
- Power Line Protection for Various Electrical Facilities' Control Board
- UL1449 3rd Edition
- CSA
- IEC 61643-11

## Description

- Innovative Surge Protection Technology
- Combined with Complete Recognition & Fast-Acting Thermal-Runaway Disconnecter
- Remote Alarm Indication Built-In
- MCOV 20V~1000VAC
- $I_{max 12} \sim 40kA (8/20\mu s)$ ,  $I_n 6 \sim 20kA (8/20\mu s)$

## Type designation

# PVR 511

A

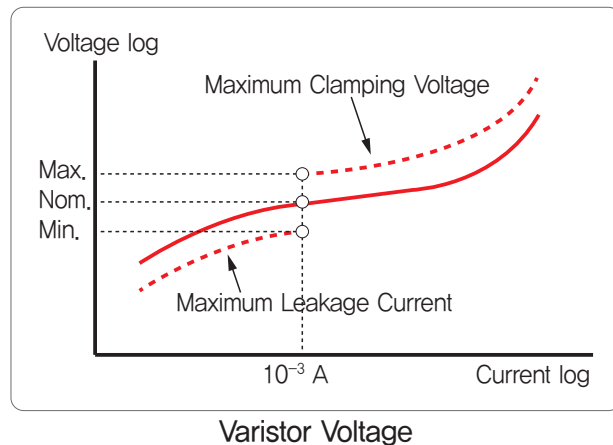
B

**A** PRIME POWER SOLUTION Metal Oxide Varistor

**B** Operating Voltage Category : Rated / Maximum continuous

## Electrical Rating

Varistor elements without plastic housing  
(suitable for soldering) are available upon request

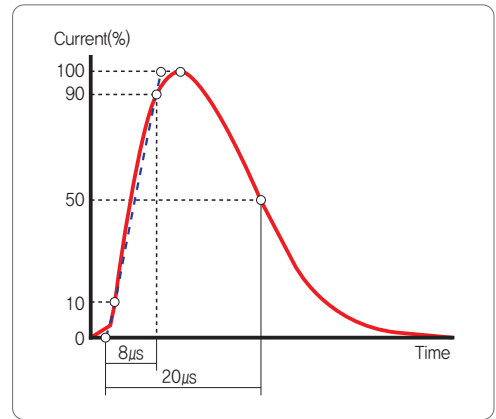


## Specification

Part No.	Maximum Allowable Voltage		Varistor Voltage		Clamping voltage(max.)		Discharge Current (8/20 $\mu$ s)		Wmax	Pmax	
	AC,rms	DC	Min	Max	VC	IP	I <sub>n</sub>	I <sub>max</sub>	10/1000 $\mu$ s		
	( V )	( V )	V 1.0mA( V )		( V )	( V )	( kA )		( J )	( W )	
PVR 330	20	26	30	37	65	60	6	12	67	0.30	
PVR 390	25	31	35	44	77	60			78		
PVR 470	30	38	42	52	93	60			96		
PVR 560	35	45	50	63	110	60	10	30	115	0.30	
PVR 680	40	56	61	75	135	60			136		
PVR 820	50	65	74	90	135	300	15	30	156	1.40	
PVR 101	60	85	90	110	165	300			195		
PVR 111	66	93	99	121	182	300			215		
PVR 121	75	100	108	132	200	300			235		
PVR 131	82	108	117	143	216	300	20	40	256	1.40	
PVR 151	95	125	135	165	250	300			296		
PVR 181	115	150	162	198	300	300			350		
PVR 201	130	170	185	225	340	300			400		
PVR 221	140	180	198	242	360	300			450		
PVR 241	150	200	216	264	395	300	480	25	50	540	1.40
PVR 271	175	225	243	297	455	300	600				
PVR 301	190	250	270	330	500	300	656			20	
PVR 331	210	275	297	363	550	300	830				
PVR 361	230	300	324	396	595	300	920				
PVR 391	250	320	351	429	650	300	1000				
PVR 431	275	350	387	473	710	300	1060	25	50	1150	1.40
PVR 471	300	385	423	517	775	300	1250				
PVR 511	320	415	459	561	845	300	1250				
PVR 561	350	460	504	616	925	300	1280	20	40	1350	1.40
PVR 621	385	505	558	682	1025	300	1395				
PVR 681	420	560	612	748	1120	300	1475				
PVR 751	460	615	675	825	1240	300	1485				
PVR 781	485	640	702	858	1290	300	1550	20	40	1700	1.40
PVR 821	510	670	738	902	1355	300	1750				
PVR 911	550	745	819	1001	1500	300	1750				
PVR 951	575	760	855	1045	1570	300	1815	20	40	2000	1.40
PVR 102	625	825	900	1100	1650	300					
PVR 112	680	895	990	1210	1815	300					
PVR 122	750	980	1150	1320	1980	300					
PVR 142	850	1120	1315	1540	2310	300					
PVR 152	930	1220	1450	1650	2475	300					
PVR 162	1000	1320	1550	1760	2640	300					

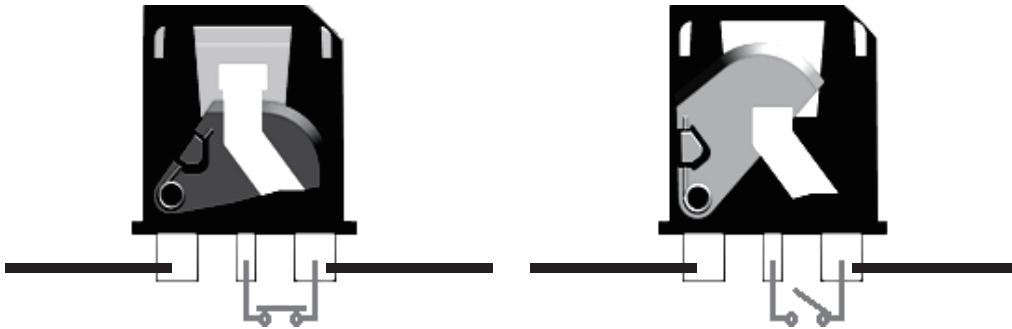
## General specification

- Maximum Discharge Current ( $I_{max}$ ) : 40 kA (8/20  $\mu$  s)
- Nominal Discharge Current ( $I_n$ ) : 20 kA (8/20  $\mu$  s)
- Temperature : Operating  $-13 \sim +185^{\circ}\text{F}$  / Storage  $-13 \sim +230^{\circ}\text{F}$
- Response Time :  $< 25$  ns

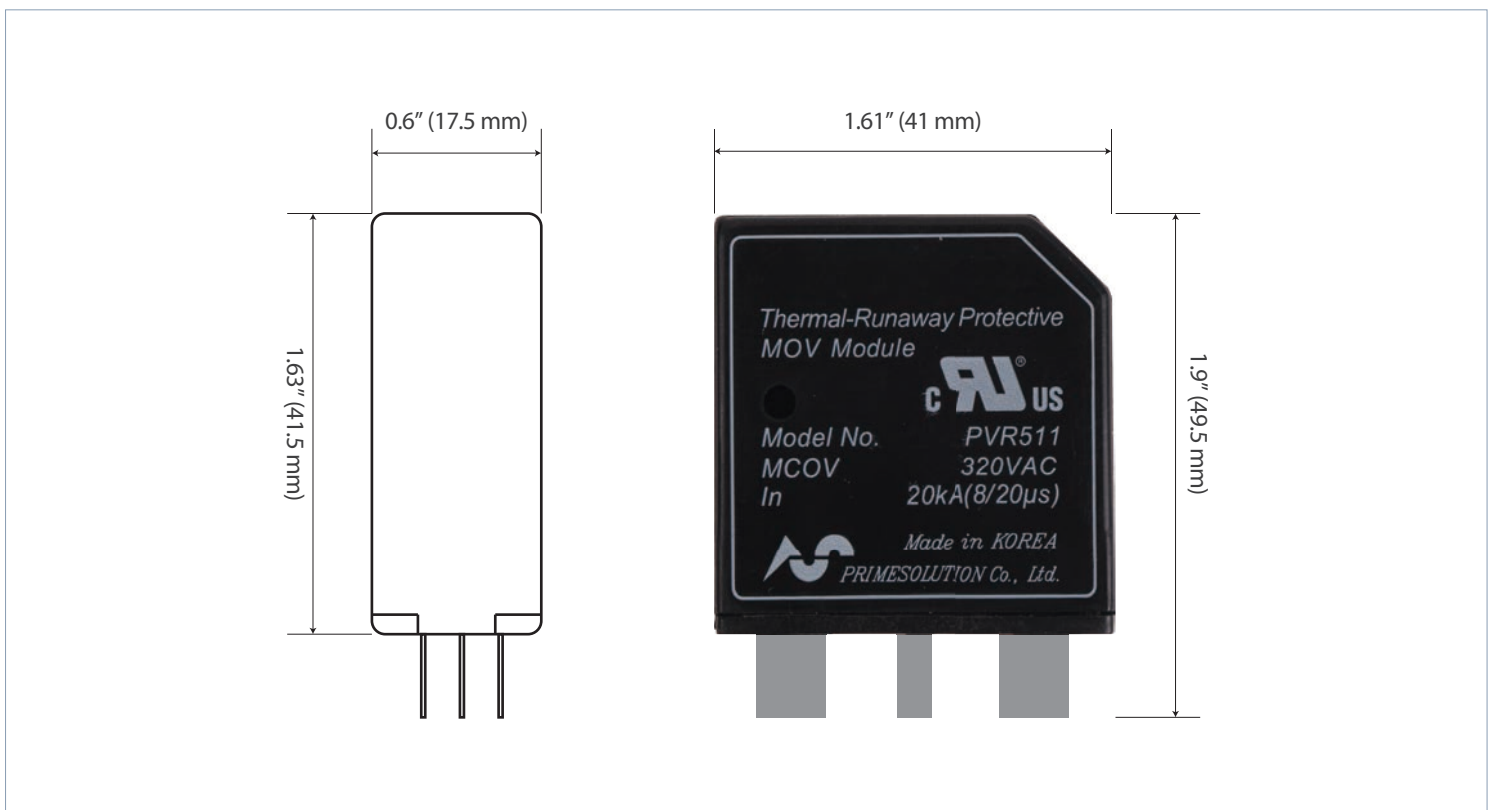


## Construction

- Complete thermal response for abnormal overvoltage
- Physical /Electrical Isolation : Indication signal circuit can be designed
- Isolation knife / Reasonable spring



## Construction



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## HEAD OFFICE

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