

PVR Series

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 ~ 40kA (8/20μ s), I_n 6 ~ 20kA (8/20μ s)

Type designation

PVR 511

A

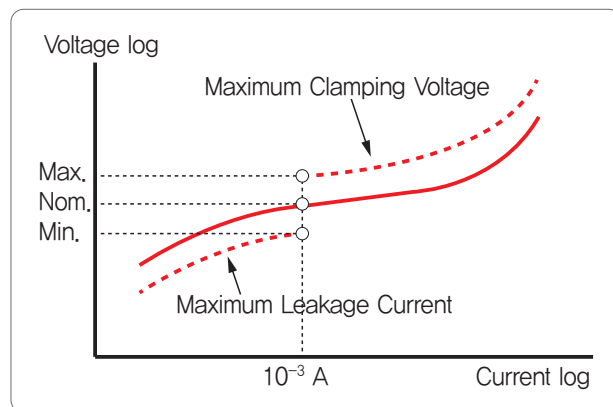
B

A Operating Voltage Category : Rated / Maximum continuous

B PRIMESOLUTION Metal Oxide Varistor

Electrical Rating

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



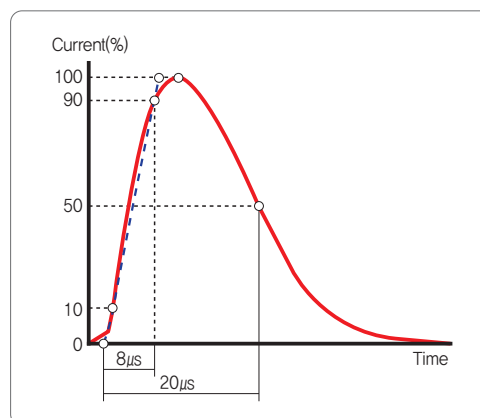
Varistor Voltage

Specification

Part No.	Maximum Allowable Voltage		Varistor Voltage		Clamping voltage(max.)		Discharge Current (8/20 μ s)		Wmax	Pmax
	AC,rms	DC	Min	Max	VC	IP	I _n	I _{max}	10/1000 μ 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			156	
PVR 101	60	85	90	110	165	300	15	30	195	1.40
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	
PVR 271	175	225	243	297	455	300			540	
PVR 301	190	250	270	330	500	300			600	
PVR 331	210	275	297	363	550	300	25	50	656	1.40
PVR 361	230	300	324	396	595	300			745	
PVR 391	250	320	351	429	650	300			830	
PVR 431	275	350	387	473	710	300			920	
PVR 471	300	385	423	517	775	300			1000	
PVR 511	320	415	459	561	845	300			1060	
PVR 561	350	460	504	616	925	300			1150	
PVR 621	385	505	558	682	1025	300			1250	
PVR 681	420	560	612	748	1120	300	20	40	1250	1.40
PVR 751	460	615	675	825	1240	300			1280	
PVR 781	485	640	702	858	1290	300			1350	
PVR 821	510	670	738	902	1355	300			1395	
PVR 911	550	745	819	1001	1500	300			1475	
PVR 951	575	760	855	1045	1570	300			1485	
PVR 102	625	825	900	1100	1650	300			1550	
PVR 112	680	895	990	1210	1815	300			1700	
PVR 122	750	980	1150	1320	1980	300			1750	
PVR 142	850	1120	1315	1540	2310	300			1750	
PVR 152	930	1220	1450	1650	2475	300			1815	
PVR 162	1000	1320	1550	1760	2640	300			2000	

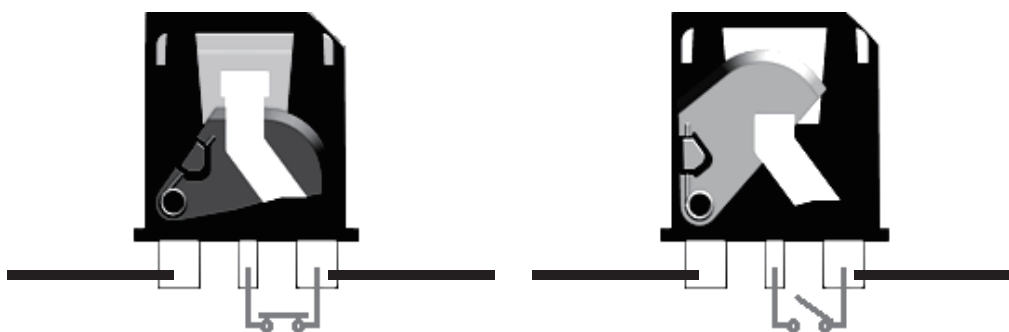
General specification

- Maximum Discharge Current (I_{max}) : 40kA (8/20 μ s)
- Nominal Discharge Current (I_n) : 20kA (8/20 μ s)
- Temperature : Operating - 25 ~ + 85°C / Storage - 25 ~ + 110°C
- Response Time : < 25ns



Construction

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



Construction

