

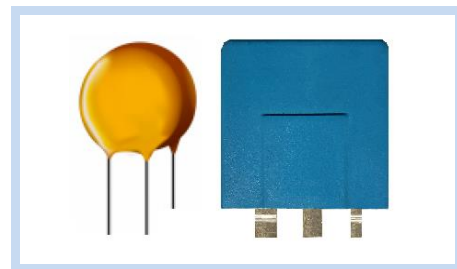
Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

FEATURE

- Operating Temperature: -55°C ~ +85°C
- Varistor Voltage: 200V ~ 1200V
- Two or Three terminal thermally protected Metal Oxide Varistor.
- High peak Surge current rating up to 10KA
- Standard lead form and spacing option
- UL/cUL safety approved: certification No: E326004



PART NUMBERING SYSTEM

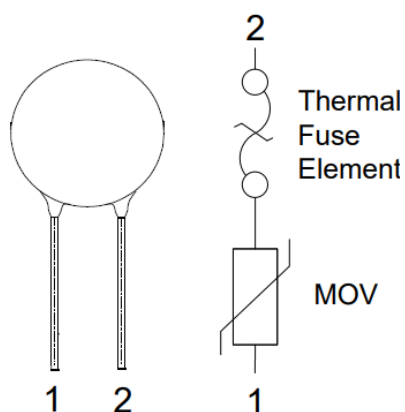


TPV 14 N 241 K S
(1) (2) (3) (4) (5) (6)

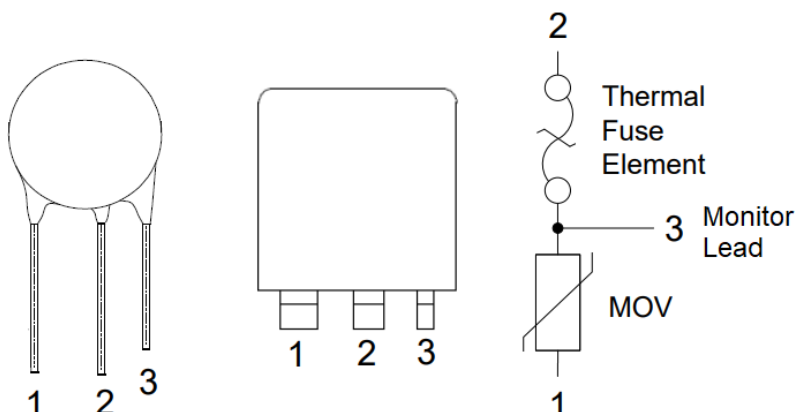
No	Item	Digit	Description	Series Reference
(1)	Meritek Series	TPV	Thermally protected Metal Oxide Varistor	Leaded Type
(2)	Diameter	14	14: $\phi 14\text{mm}$	$\phi 20\text{mm}$, $\phi 25\text{mm}$, $\phi 32\text{mm}$, $34 \times 34\text{mm}$
(3)	Lead/Package type	N	N: Coating 2 Terminals (2T)	M: Coating 3T, S: Potting 2T, T: Potting 3T
(4)	Voltage	241	241: 240V	180: 18V, 102: 1000V
(5)	Tolerance	K	K: $\pm 10\%$	-10% ~ +10%
(6)	Lead Forming type	S	S: Straight	O: Outside Kink, F: Tab

LEAD CONFIGURATION

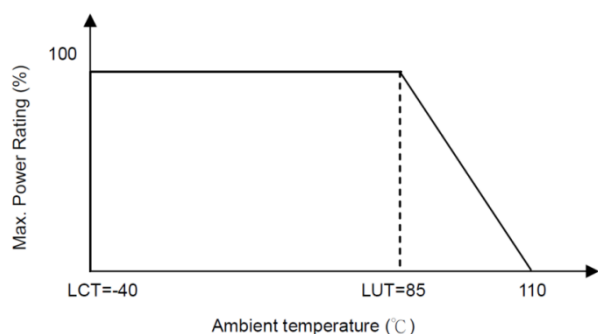
N type - 2 Terminals



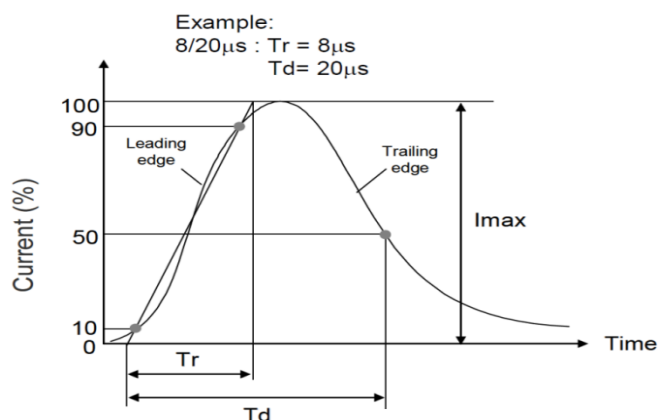
M type - 3 Terminals



POWER DERATING CURVE



SURGE CURRENT STANDARD WAVEFORM

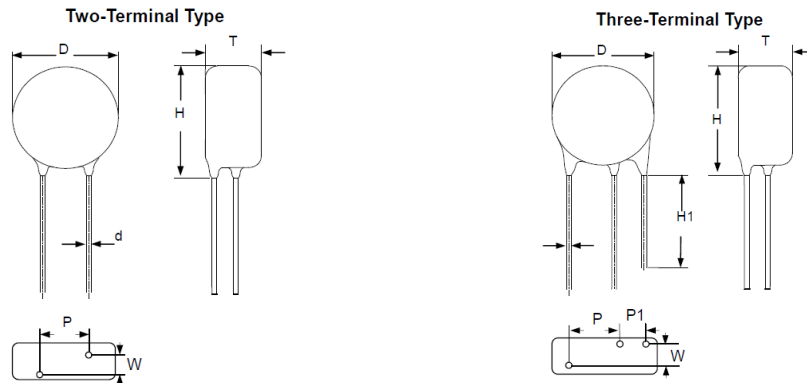


Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

DIMENSION (14mm Series)



Series	Lead Type	D (mm)	P (mm)	P1 (mm)	H (mm)	H1 (mm)	d (mm)
TPV14201~122	Two-Terminal	15.5~18.5	7.5±1	--	18.5~24	--	0.8±0.05
TPV14201~122	Three-Terminal	15.5~18.5	7.5±1	4.0~6.0	18.5~24	7.0~18	0.8±0.05

Note: For Details of Thickness W and T Max., Please Refer Electrical Characteristics.

ELECTRICAL CHARACTERISTICS

14mm Series

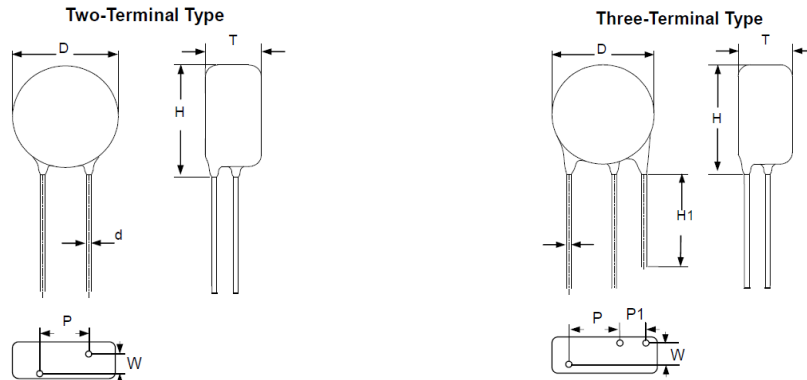
Codes TPV14	Varistor Voltage @1mA DC	Max. Continuous Voltage		Max. Clamping Voltage (8/20μs)		Max. Surge Current (8/20μs)	Nomi. Discharge Current (8/20μs)	Rated Power	Max. Energy (10/1Kμs)	Refer. Cap. @1KHz	Dimension	
	V _{1mA}	V _{AC(rms)}	V _{DC}	V _P	I _P	I _{MAX}	I _N	P	W _{MAX}	C _P	T _{MAX}	W±1
	(V)	(V)	(V)	(V)	(A)	(KA)	(KA)	(W)	(J)	(pF)	(mm)	
201	200(180~220)	130	170	340	50	6	3	0.6	77	700	8.8	3.0
221	220(198~242)	140	180	365	50	6	3	0.6	86	640	8.9	3.1
241	240(216~264)	150	200	395	50	6	3	0.6	94	580	9.1	3.3
271	270(243~297)	175	225	455	50	6	3	0.6	110	520	9.3	3.5
301	300(270~330)	195	250	500	50	6	3	0.6	118	480	9.0	3.2
331	330(297~363)	215	275	550	50	6	3	0.6	127	450	9.1	3.3
361	360(324~396)	230	300	595	50	6	3	0.6	137	430	9.3	3.5
391	390(351~429)	250	320	650	50	6	3	0.6	154	390	9.5	3.6
431	430(387~473)	275	350	710	50	6	3	0.6	170	370	9.2	3.4
471	470(423~517)	300	385	775	50	6	3	0.6	192	320	9.3	3.5
511	510(459~561)	320	410	845	50	6	3	0.6	209	290	9.5	3.7
561	560(504~616)	350	450	930	50	6	3	0.6	220	260	9.7	3.9
621	620(558~682)	395	510	1025	50	6	3	0.6	231	240	10.0	4.1
681	680(612~748)	420	560	1120	50	6	3	0.6	242	230	10.3	4.4
751	750(675~825)	465	615	1240	50	6	3	0.6	247	220	10.6	4.7
781	780(702~858)	485	640	1290	50	6	3	0.6	260	200	10.1	4.3
821	820(738~902)	510	670	1355	50	6	3	0.6	270	180	10.2	4.5
911	910(819~1001)	550	745	1500	50	6	3	0.6	280	170	10.6	4.8
951	950(855~1045)	575	765	1570	50	6	3	0.6	290	160	10.7	4.9
102	1000(900~1100)	625	825	1650	50	6	3	0.6	305	150	10.9	5.1
112	1100(990~1210)	680	895	1815	50	6	3	0.6	340	140	11.2	5.4
122	1200(1080~1320)	750	980	2000	50	6	--	0.6	350	130	11.6	5.8

Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

DIMENSION (20mm Series)



Series	Lead Type	D (mm)	P (mm)	P1 (mm)	H (mm)	H1 (mm)	d (mm)
TPV20201~681	Two-Terminal	19.5~23.5	7.5±1	--	21.5~27	--	0.8±0.05
TPV20751~122							1.0±0.05
TPV20201~681	Three-Terminal	19.5~23.5	7.5±1	4.0~6.0	21.5~27	12.5~18	0.8±0.05
TPV20751~122							1.0±0.05

Note: For Details of Thickness W and T Max., Please Refer Electrical Characteristics.

ELECTRICAL CHARACTERISTICS

20mm Series

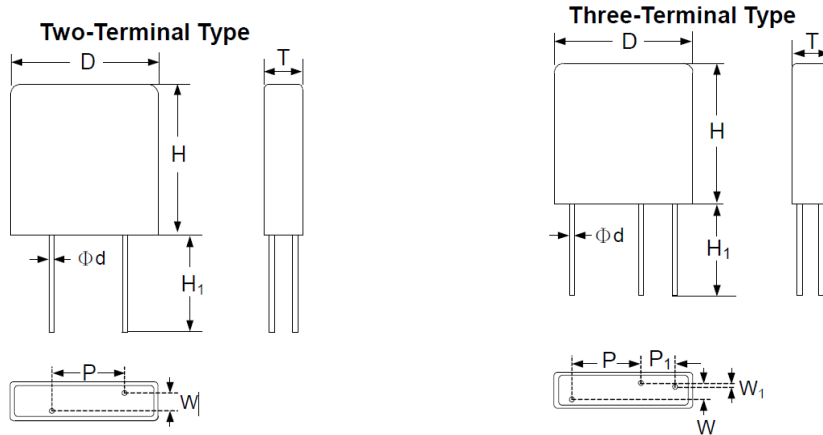
Codes TPV20	Varistor Voltage @1mA DC	Max. Continuous Voltage		Max. Clamping Voltage (8/20μs)		Max. Surge Current (8/20μs)	Nomi. Discharge Current (8/20μs)	Rated Power	Max. Energy (10/1Kμs)	Refer. Cap. @1KHz	Dimension	
	V _{1mA}	V _{AC(rms)}	V _{DC}	V _P	I _P	I _{MAX}	I _N	P	W _{MAX}	C _P	T _{MAX}	W±1
	(V)	(V)	(V)	(V)	(A)	(KA)	(KA)	(W)	(J)	(pF)	(mm)	
201	200(180~220)	130	170	340	100	10	3	1.0	140	1460	10.2	3.0
221	220(198~242)	140	180	365	100	10	3	1.0	155	1320	10.3	3.1
241	240(216~264)	150	200	395	100	10	3	1.0	170	1200	10.5	3.3
271	270(243~297)	175	225	455	100	10	3	1.0	190	1100	10.7	3.5
301	300(270~330)	195	250	500	100	10	3	1.0	205	1000	10.4	3.2
331	330(297~363)	215	275	550	100	10	3	1.0	215	950	10.5	3.3
361	360(324~396)	230	300	595	100	10	3	1.0	225	900	10.7	3.5
391	390(351~429)	250	320	650	100	10	3	1.0	240	800	10.9	3.6
431	430(387~473)	275	350	710	100	10	3	1.0	270	700	10.6	3.4
471	470(423~517)	300	385	775	100	10	3	1.0	350	620	10.7	3.5
511	510(459~561)	320	410	845	100	10	3	1.0	386	530	10.9	3.7
561	560(504~616)	350	450	930	100	10	3	1.0	400	480	11.1	3.9
621	620(558~682)	395	510	1025	100	10	3	1.0	425	450	11.4	4.1
681	680(612~748)	420	560	1120	100	10	3	1.0	455	440	11.7	4.4
751	750(675~825)	465	615	1240	100	10	3	1.0	509	420	12.0	4.7
781	780(702~858)	485	640	1290	100	10	3	1.0	515	400	11.5	4.3
821	820(738~902)	510	670	1355	100	10	3	1.0	475	390	11.6	4.5
911	910(819~1001)	550	745	1500	100	10	3	1.0	509	360	12.0	4.8
951	950(855~1045)	575	765	1570	100	10	3	1.0	530	340	12.1	4.9
102	1000(900~1100)	625	825	1650	100	10	3	1.0	560	330	12.3	5.1
112	1100(990~1210)	680	895	1815	100	10	3	1.0	610	310	12.6	5.4
122	1200(1080~1320)	750	980	2000	100	10	--	1.0	620	290	13.0	5.8

Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

DIMENSION (25mm Series)



Series	Lead Type	D±1.0 (mm)	P±1.0 (mm)	P1±1.0 (mm)	H±1.0 (mm)	H1 Min. (mm)	d±0.05 (mm)
TPV25	Two-Terminal	33.0	10.0	--	33.5	15.0	1.0
	Three-Terminal			5.0			

Note: For Details Thickness of W/W1 and T Max., Please Refer Electrical Characteristics.

ELECTRICAL CHARACTERISTICS

25mm Series

Codes TPV25	Varistor Voltage @1mA DC	Max. Continuous Voltage		Max. Clamping Voltage (8/20μs)		Max. Surge Current (8/20μs)	Nomi. Discharge Current (8/20μs)	Rated Power	Max. Energy (10/1Kμs)	Refer. Cap. @1KHz	Dimension	
	V _{1mA}	V _{AC(rms)}	V _{DC}	V _P	I _P	I _{MAX}	I _N	P	W _{MAX}	C _P	T _{MAX}	W±1
	(V)	(V)	(V)	(V)	(A)	(KA)	(KA)	(W)	(J)	(pF)	(mm)	
201	200 (180~220)	130	170	340	150	20	5	1.0	210	2200	15	5.6
221	220 (198~242)	140	180	360	150	20	5	1.0	230	2000		5.8
241	240 (216~264)	150	200	395	150	20	5	1.0	255	1900		6.0
271	270 (243~297)	175	225	455	150	20	5	1.0	285	1600		6.3
301	300 (270~330)	195	250	500	150	20	5	1.0	310	1500		5.8
331	330 (297~363)	215	275	550	150	20	5	1.0	325	1400		6.1
361	360 (324~396)	230	300	595	150	20	5	1.0	340	1300		6.3
391	390 (351~429)	250	320	650	150	20	5	1.0	360	1100		6.5
431	430 (387~473)	275	350	710	150	20	5	1.0	440	1000		5.7
471	470 (423~517)	300	385	775	150	20	5	1.0	490	950		5.8
511	510 (459~561)	320	410	845	150	20	5	1.0	530	900	19	6.0
561	560 (504~616)	350	450	930	150	20	5	1.0	560	800		
621	620 (558~682)	395	510	1020	150	20	5	1.0	590	700		6.3
681	680 (612~748)	420	560	1120	150	20	5	1.0	620	650		6.6
751	750 (675~825)	465	615	1235	150	20	5	1.0	630	600		6.9
781	780 (702~858)	485	640	1290	150	20	5	1.0	675	550		7.2
821	820 (738~902)	510	670	1355	150	20	5	1.0	690	520		6.4
911	910 (819~1001)	550	745	1500	150	20	5	1.0	715	500		6.5
951	950 (855~1045)	575	765	1570	150	20	5	1.0	740	450		6.8
102	1000 (900~1100)	625	825	1650	150	20	5	1.0	770	430		7.0
112	1100 (990~1210)	680	895	1815	150	20	5	1.0	840	400		7.2
122	1200 (1080~1320)	750	980	2000	150	20	--	1.0	910	380		7.5

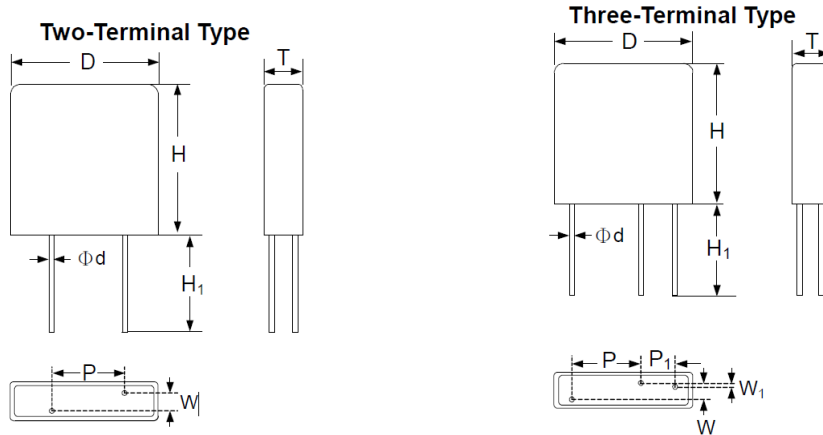
Note: W1 ± 1.0 for 25mm Series = 1.9mm.

Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

DIMENSION (32mm Series)



Series	Lead Type	D±1.0 (mm)	P±1.0 (mm)	P1±1.0 (mm)	H±1.0 (mm)	H1 Min. (mm)	d±0.05 (mm)
TPV32	Two-Terminal	40.0	15.0	--	42.0	15.0	1.5
	Three-Terminal			8.0			

Note: For Details of Thickness W/W1 and T Max., Please Refer Electrical Characteristics.

ELECTRICAL CHARACTERISTICS

32mm Series

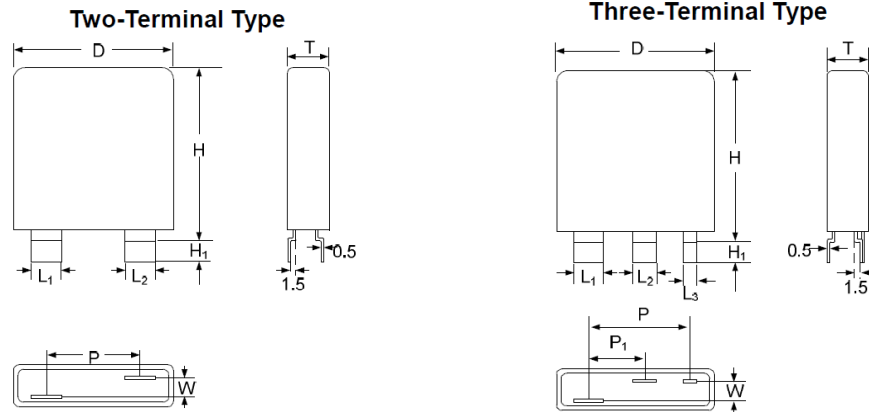
Codes TPV32	Varistor Voltage @1mA DC	Max. Continuous Voltage		Max. Clamping Voltage (8/20μs)		Max. Surge Current (8/20μs)	Nomi. Discharge Current (8/20μs)	Rated Power	Max. Energy (10/1Kμs)	Refer. Cap. @1KHz	Dimension	
	V _{1mA}	V _{AC(rms)}	V _{DC}	V _P	I _P	I _{MAX}	I _N	P	W _{MAX}	C _P	T _{MAX}	W±1
	(V)	(V)	(V)	(V)	(A)	(KA)	(KA)	(W)	(J)	(pF)	(mm)	
201	200 (180~220)	130	170	340	200	25	10	1.2	295	3900	16	6.2
221	220 (198~242)	140	180	360	200	25	10	1.2	315	3500		6.4
241	240 (216~264)	150	200	395	200	25	10	1.2	340	3300		6.6
271	270 (243~297)	175	225	455	200	25	10	1.2	360	2800		6.9
301	300 (270~330)	195	250	500	200	25	10	1.2	380	2600		6.4
331	330 (297~363)	215	275	550	200	25	10	1.2	400	2400		6.7
361	360 (324~396)	230	300	595	200	25	10	1.2	420	2200		6.9
391	390 (351~429)	250	320	650	200	25	10	1.2	465	2000		7.1
431	430 (387~473)	275	350	710	200	25	10	1.2	505	1800		6.3
471	470 (423~517)	300	385	775	200	25	10	1.2	570	1700		6.4
511	510 (459~561)	320	410	845	200	25	10	1.2	605	1600		6.6
561	560 (504~616)	350	450	930	200	25	10	1.2	660	1400	20	6.9
621	620 (558~682)	395	510	1020	200	25	10	1.2	770	1250		7.2
681	680 (612~748)	420	560	1120	200	25	10	1.2	840	1150		7.5
751	750 (675~825)	465	615	1235	200	25	10	1.2	925	1100		7.8
781	780 (702~858)	485	640	1290	200	25	10	1.2	955	1050		7.0
821	820 (738~902)	510	670	1355	200	25	10	1.2	770	950		7.1
911	910 (819~1001)	550	745	1500	200	25	10	1.2	870	900		7.4
951	950 (855~1045)	575	765	1570	200	25	10	1.2	925	850		7.6
102	1000 (900~1100)	625	825	1650	200	25	10	1.2	965	800		7.8
112	1100 (990~1210)	680	895	1815	200	25	10	1.2	1065	750		8.1
122	1200 (1080~1320)	750	980	2000	200	25	--	1.2	1120	650		8.4

Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

DIMENSION (34mm Series)



Series	Lead Type	D $\pm$ 1.0 (mm)	P $\pm$ 2.0 (mm)	P1 $\pm$ 2.0 (mm)	H Max. (mm)	H1 Max. (mm)	L1 $\pm$ 0.1 (mm)	L2 $\pm$ 0.1 (mm)	L3 $\pm$ 0.1 (mm)
TPV34	Two-Terminal	40.0	21.5	--	42.0	8	6.0	6.0	--
	Three-Terminal		23.5	11.0				5.0	3.0

Note: For Details of W and T Max., Please Refer Electrical Characteristics.

ELECTRICAL CHARACTERISTICS

34mm Series

Codes TPV34	Varistor Voltage @1mA DC	Max. Continuous Voltage		Max. Clamping Voltage (8/20 μ s)		Max. Surge Current (8/20 μ s)	Nomi. Discharge Current (8/20 μ s)	Rated Power	Max. Energy (10/1K μ s)	Refer. Cap. @1KHz	Dimension	
	V _{1mA}	V _{AC(rms)}	V _{DC}	V _P	I _P	I _{MAX}	I _N	P	W _{MAX}	C _P	T _{MAX}	W $\pm$ 1
	(V)	(V)	(V)	(V)	(A)	(KA)	(KA)	(W)	(J)	(pF)	(mm)	
201	200 (180~220)	130	170	340	300	40	20	1.4	435	5600	16	6.2
221	220 (198~242)	140	180	360	300	40	20	1.4	480	5000		6.4
241	240 (216~264)	150	200	395	300	40	20	1.4	505	4800		6.6
271	270 (243~297)	175	225	455	300	40	20	1.4	560	4100		6.9
301	300 (270~330)	195	250	500	300	40	20	1.4	590	3800		6.4
331	330 (297~363)	215	275	550	300	40	20	1.4	620	3500		6.7
361	360 (324~396)	230	300	595	300	40	20	1.4	645	3200		6.9
391	390 (351~429)	250	320	650	300	40	20	1.4	690	2800		7.1
431	430 (387~473)	275	350	710	300	40	20	1.4	770	2600		6.3
471	470 (423~517)	300	385	775	300	40	20	1.4	835	2400		6.4
511	510 (459~561)	320	410	845	300	40	20	1.4	900	2300		6.6
561	560 (504~616)	350	450	930	300	40	20	1.4	995	2000	20	6.9
621	620 (558~682)	395	510	1020	300	40	20	1.4	1120	1800		7.2
681	680 (612~748)	420	560	1120	300	40	20	1.4	1275	1700		7.5
751	750 (675~825)	465	615	1235	300	40	20	1.4	1400	1600		7.8
781	780 (702~858)	485	640	1290	300	40	20	1.4	1445	1500		7.0
821	820 (738~902)	510	670	1355	300	40	20	1.4	1205	1400		7.1
911	910 (819~1001)	550	745	1500	300	40	20	1.4	1345	1300		7.4
951	950 (855~1045)	575	765	1570	300	40	20	1.4	1400	1200		7.6
102	1000 (900~1100)	625	825	1650	300	40	20	1.4	1470	1150		7.8
112	1100 (990~1210)	680	895	1815	300	40	20	1.4	1610	1050		8.1
122	1200 (1080~1320)	750	980	2000	300	40	--	1.4	1750	950		8.4

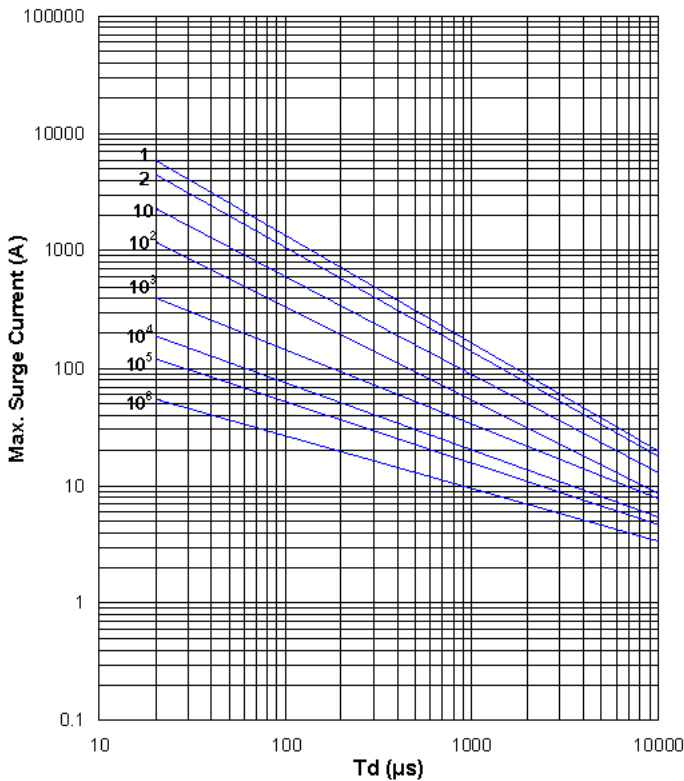
Metal Oxide Varistor
Thermally Protected Type

TPV Series

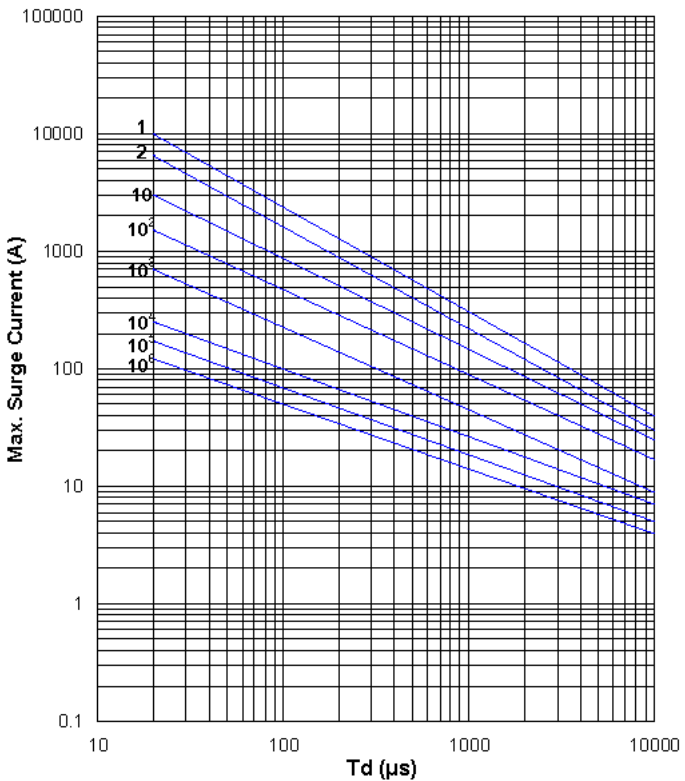
MERITEK

MAX. SURGE CURRENT DERATING CURVES

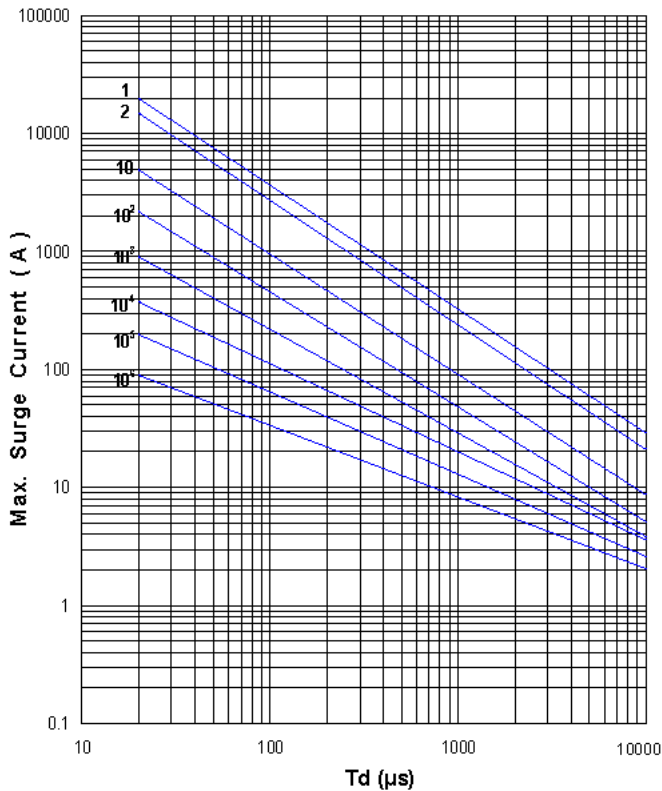
TPV14201~TPV14112



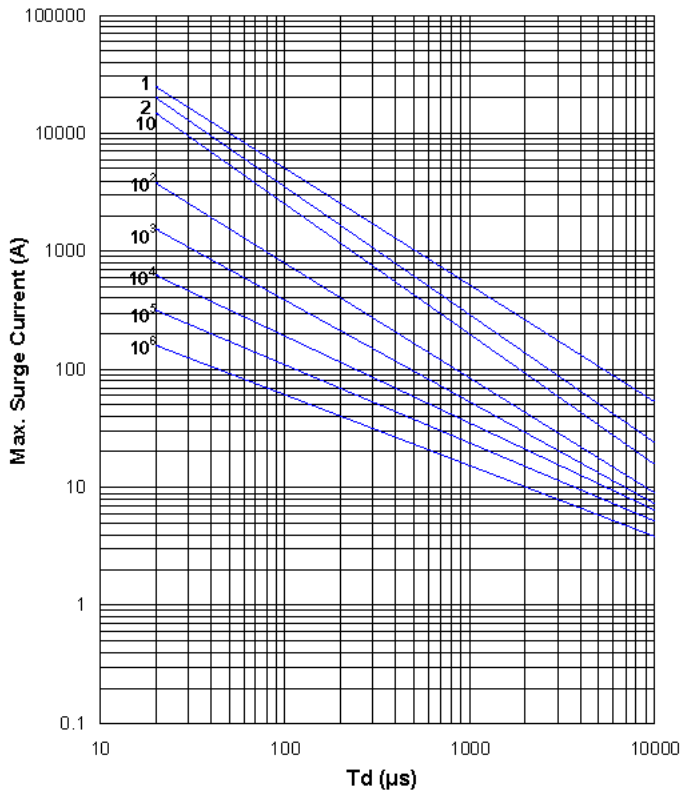
TPV20201~TPV20112



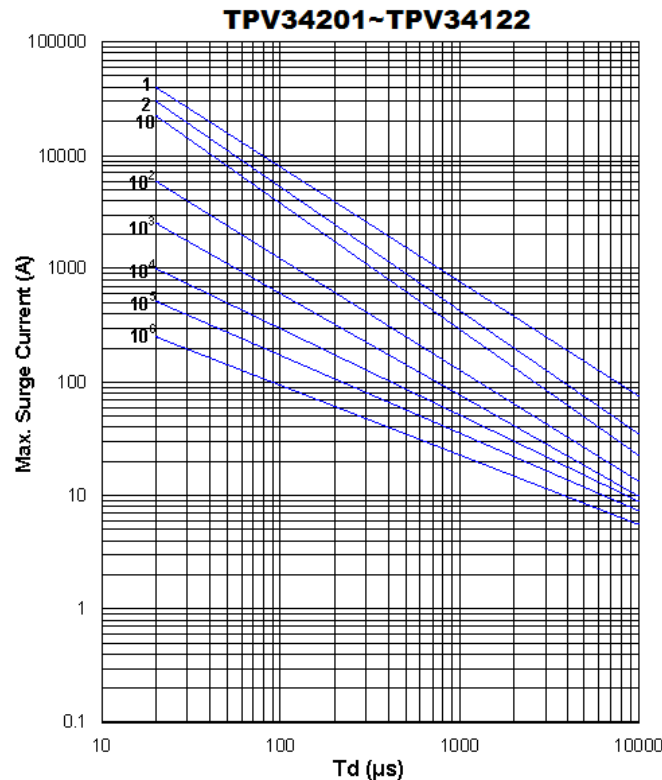
TPV25201~TPV25122



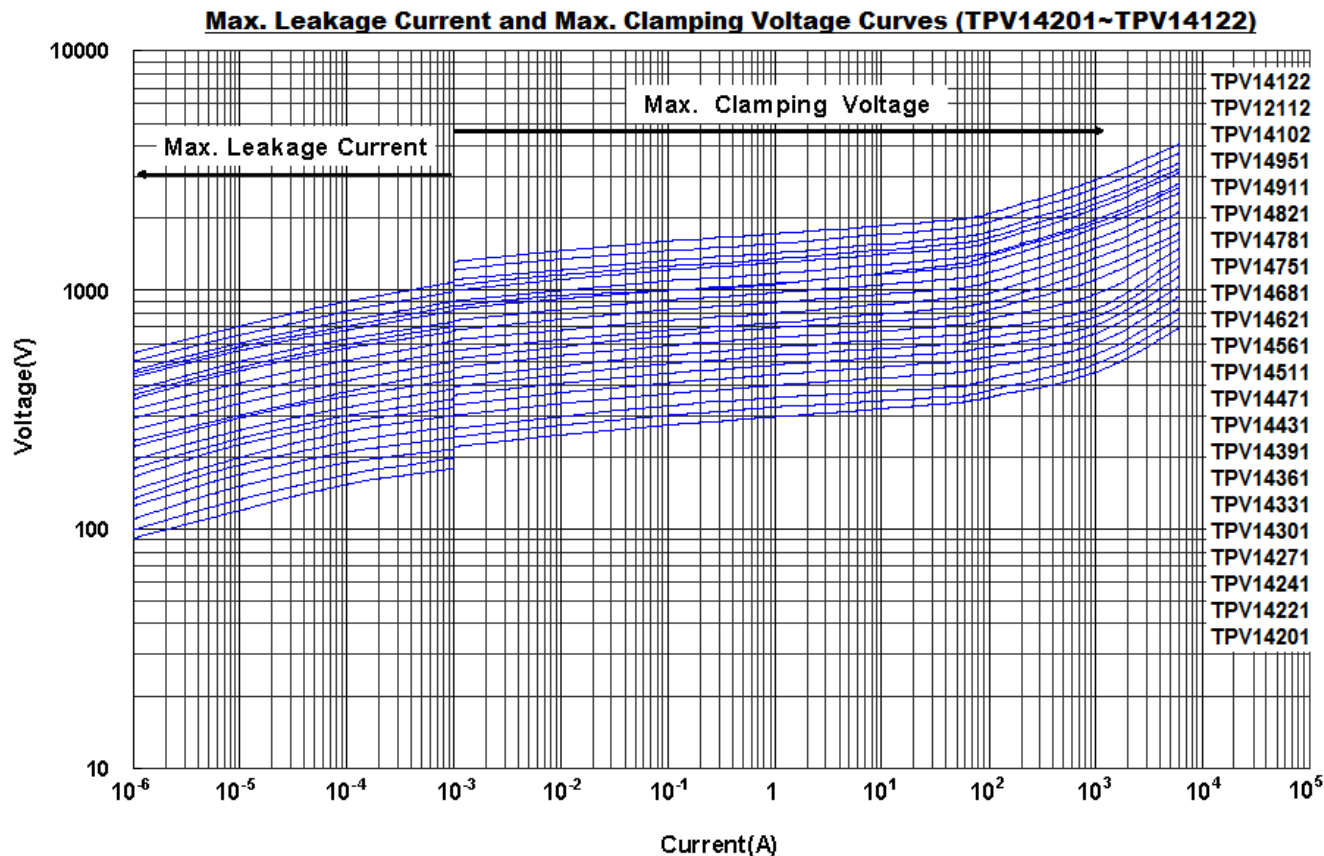
TPV32201~TPV32122



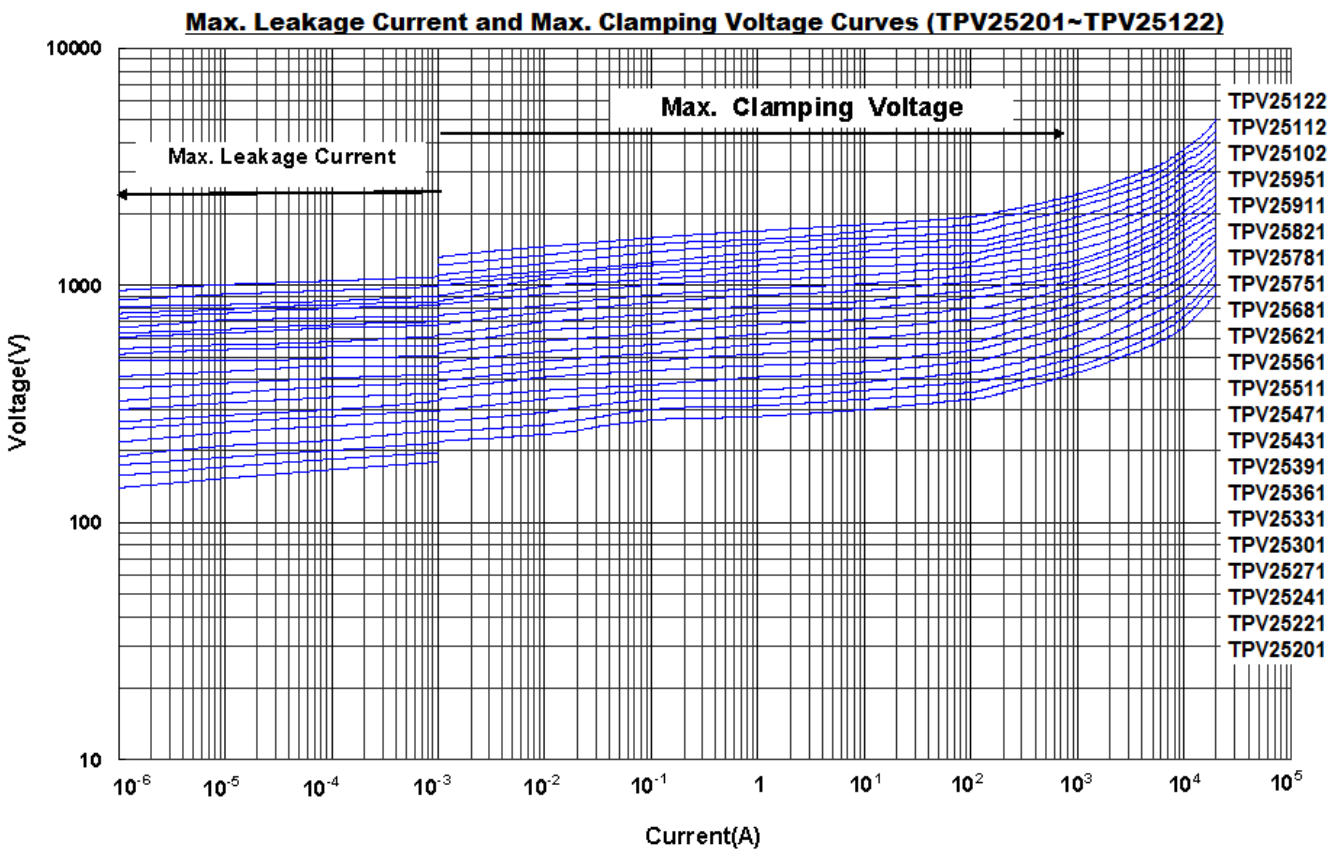
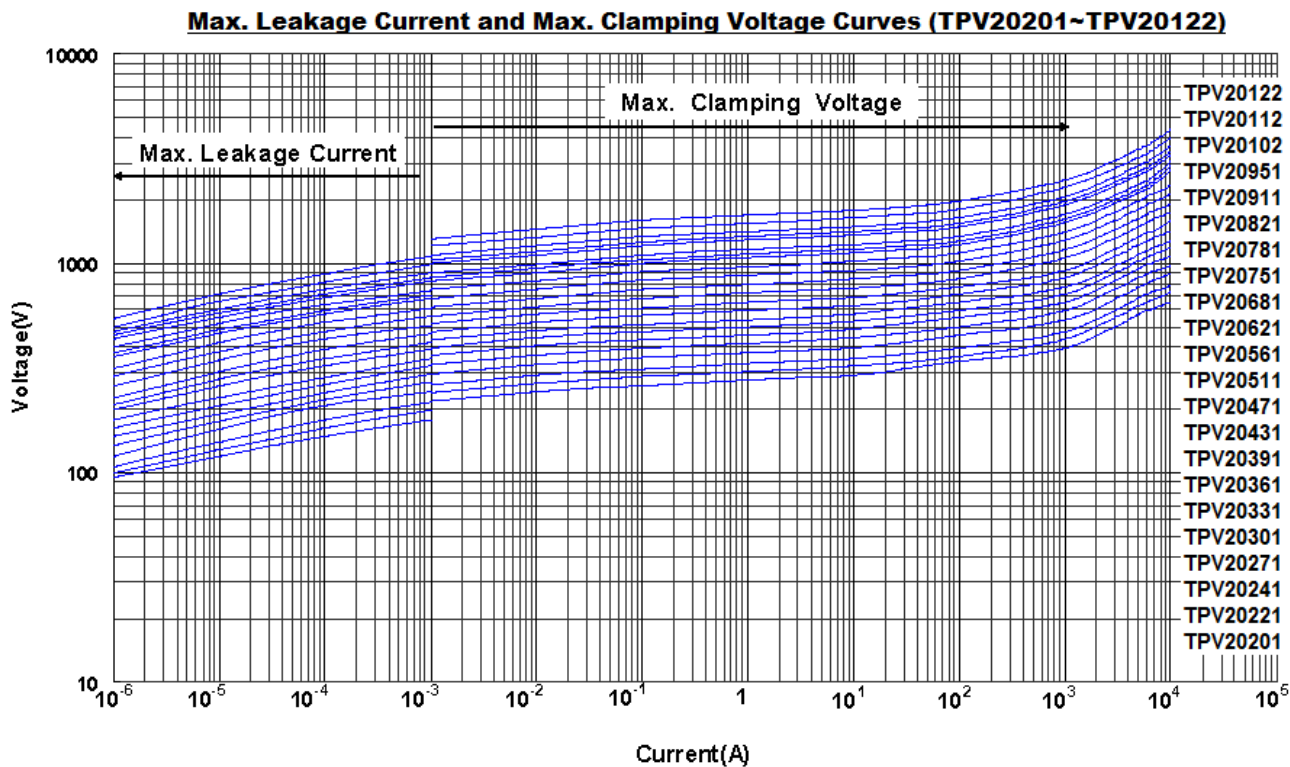
MAX. SURGE CURRENT DERATING CURVES (CONTINUED)



MAX. LEAKAGE CURRENT & MAX. CLAMPING VOLTAGE CURVES

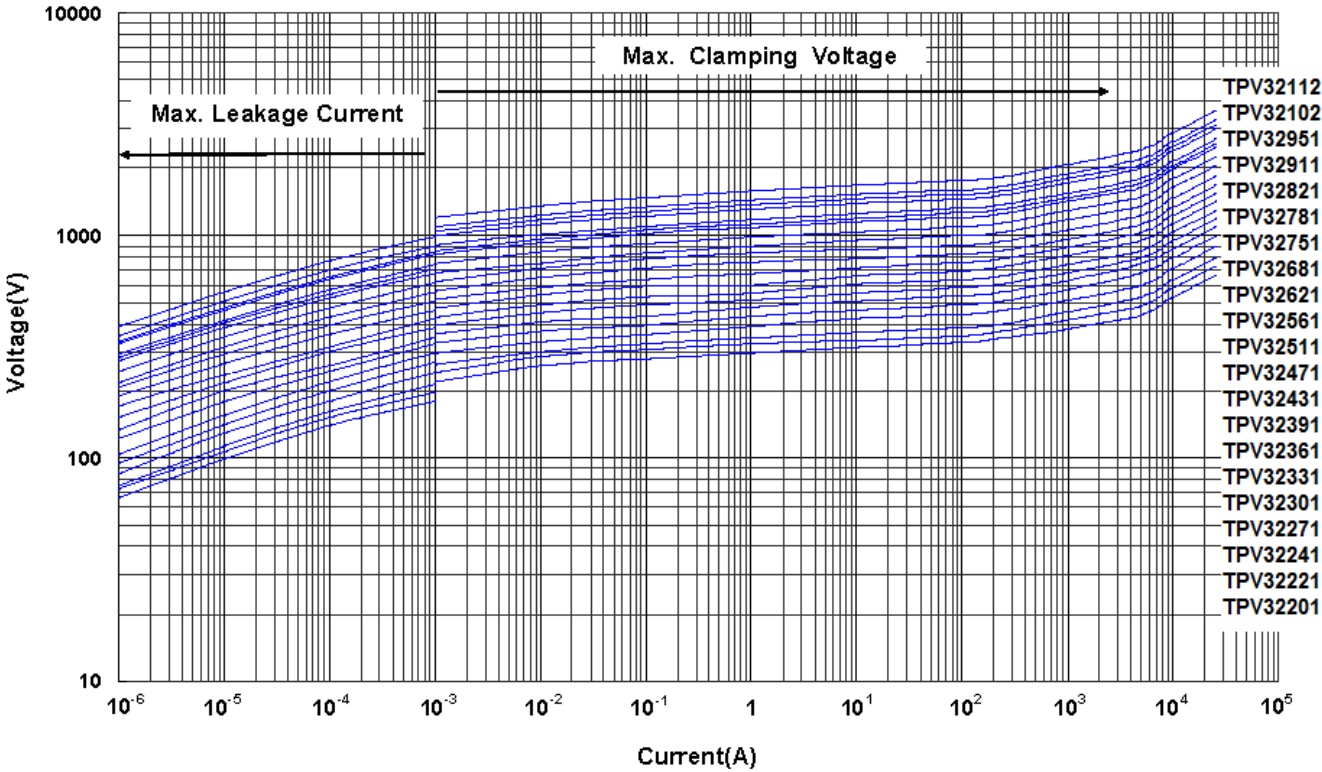


MAX. LEAKAGE CURRENT & MAX. CLAMPING VOLTAGE CURVES (CONTINUED)

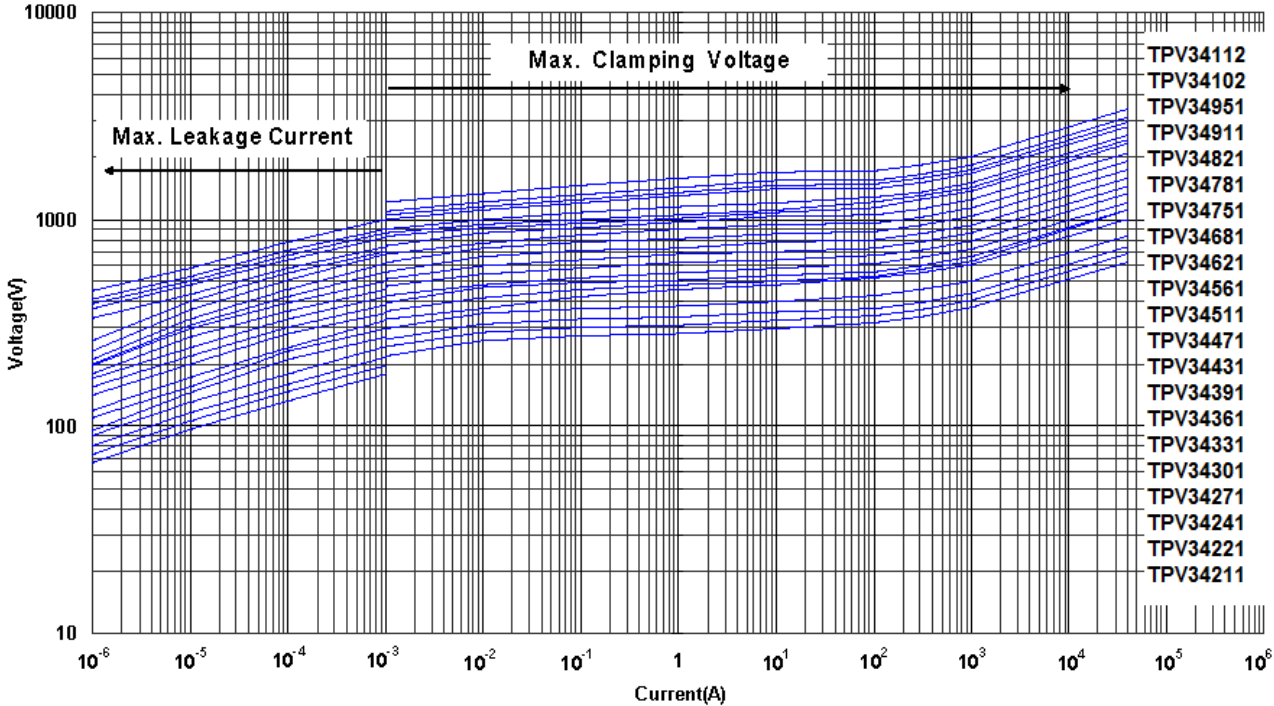


MAX. LEAKAGE CURRENT & MAX. CLAMPING VOLTAGE CURVES (CONTINUED)

Max. Leakage Current and Max. Clamping Voltage Curves (TPV32201~TPV32122)



Max. Leakage Current and Max. Clamping Voltage Curves (TPV34201~TPV34122)



Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

RELIABILITY

Item	Standard	Test Conditions / Method			Specifications
Tensile Strength of Terminals	IEC 60068-2-21	Gradually apply the specified force and keep the unit fixed for 10±1s.			$\Delta V_{1mA}/V_{1mA}$ ≤5% No visible damage
		Terminal diameter (mm)	Terminal Cross-sectional area (mm ²)	Force (Kg)	
		0.5<d≤0.8 0.8<d≤1.25 1.25<d	0.2<S≤0.5 0.5<S≤1.2 1.2<S	1.0 2.0 4.0	
Bending Strength of Terminals	IEC 60068-2-21	Hold specimen and apply the force specified below to each lead. Bend the specimen to 90°, and then return to the original position. Repeat the procedure in the opposite direction.			$\Delta V_{1mA}/V_{1mA}$ ≤5% No visible damage
		Terminal diameter (mm)	Terminal Cross-sectional area (mm ²)	Force (Kg)	
		0.5<d≤0.8 0.8<d≤1.25 1.25<d	0.2<S≤0.5 0.5<S≤1.2 1.2<S	0.5 1.0 2.0	
Vibration	IEC 60068-2-6	Frequency range: 10 ~ 55 Hz Amplitude: 0.75mm or 98 m/s ² Direction: 3 mutually perpendicular directions, 2 hrs each.			$\Delta V_{1mA}/V_{1mA}$ ≤5% No visible damage
Solderability	IEC 60068-2-20	245±3°C , 3±0.3 sec			At least 95% of terminal electrode is covered by new solder
Resistance to Soldering Heat	IEC 60068-2-20	260±3°C , 10±1 sec			$\Delta V_{1mA}/V_{1mA}$ ≤5% No visible damage
High Temperature Storage	IEC 60068-2-2	110±5°C x 1000± 24 hrs			$\Delta V_{1mA}/V_{1mA}$ ≤5% No visible damage
Damp Heat, Steady State	IEC 60068-2-78	a. 40±2°C, 90 ~ 95 % RH, 1344 hrs b. 40±2°C, 90 ~ 95 % RH, at 10%Vdc, 1344 hrs			$\Delta V_{1mA}/V_{1mA}$ ≤10% No visible damage Insulation Resistance ≥100MΩ
Rapid Change of Temperature	IEC 60068-2-14	The conditions shown below shall be repeated 5 cycles.			$\Delta V_{1mA}/V_{1mA}$ ≤5% No visible damage
		Step	Temperature (°C)	Period (minutes)	
		1	-40±3	30±3	
		2	Room temperature	5±3	
		3	85±2	30±3	
		4	Room temperature	5±3	
High Temp. Load	MIL -STD-202 Method 108	85±2°C, 1000±24 hrs at VDC or V _{rms} (Max. Continuous Voltage)			$\Delta V_{1mA}/V_{1mA}$ ≤10% No visible damage
8/20μs Surge Life	IEC 61051-1	8/20μs waveform, 10 surge currents, unipolar, interval 30 secs, amplitude corresponding to max. surge current derating curves for 20μs.			$\Delta V_{1mA}/V_{1mA}$ ≤10% No visible damage
10/1000μs Surge Life	IEC 61051-1	10/1000μs waveform, 10 surge currents, unipolar, interval 2 mins, amplitude corresponding to max. surge current derating curves for 1000μs.			$\Delta V_{1mA}/V_{1mA}$ ≤10% No visible damage
Operating Duty Cycle Test	UL 1449 3 rd	Refer to UL 1449 3 rd item 37A, the test condition is In (Nominal Discharge Current) 8/20μs surge current waveform for 15 times.			$\Delta V_{1mA}/V_{1mA}$ ≤10% No visible damage

Metal Oxide Varistor Thermally Protected Type

TPV Series

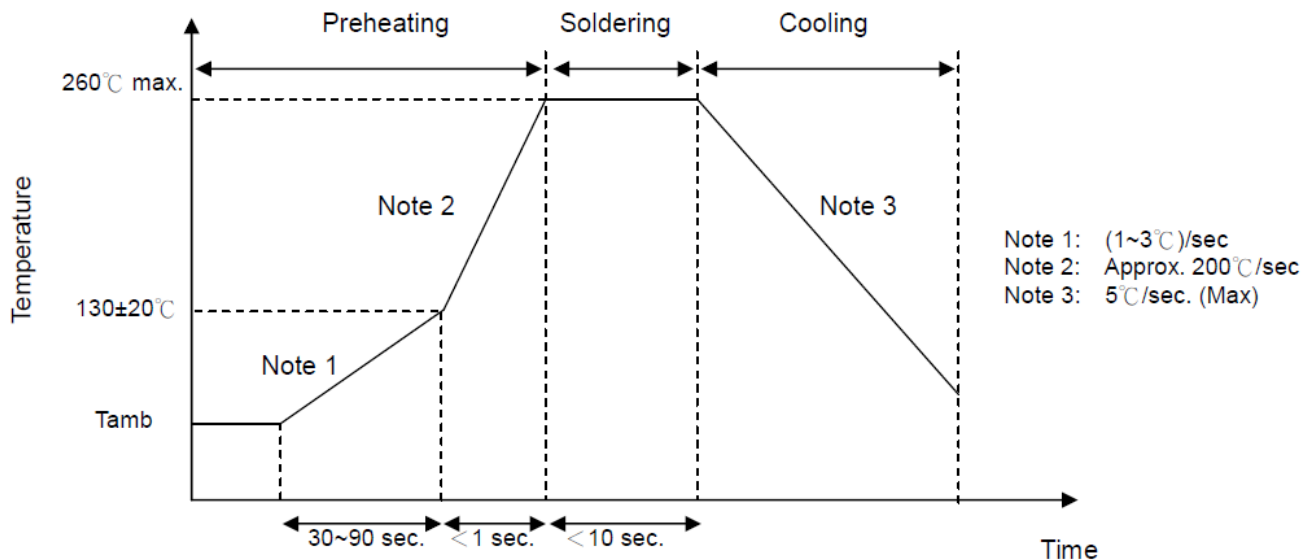
MERITEK

RELIABILITY (CONTINUED)

Item	Standard	Test Conditions / Method	Specifications	
Limited Current Abnormal Overvoltage Test	UL 1449 3 rd	Test voltage: refer to UL 1449 3 rd Table 39.1	No flame	
		Short current condition:		
		Series		Short Current (I _{SC} , A)
		TPV14		0.125A, 0.5A, 2.5A, 5A
		TPV20		0.5A, 2.5A, 5A, 10A
		Each of four previously untested TVT samples to be connected to an AC power supply having an open circuit voltage equal to U _{oc} . The power supply is to incorporate a series variable resistor that can be adjusted to obtain the short-circuit values (I _{sc}) respectively. The four samples are to be energized for 7 hrs, or until current to, or body temperature attain equilibrium, or until the sample becomes disconnected from the ac supply.		
Voltage Proof	IEC 61051-1	Metal balls method, 2500 Vac 1 min	No visible damage	
Varistor Voltage Temp. Coefficient	IEC 60068-2-6	$\frac{V_{1mA@85^{\circ}C}-V_{1mA@25^{\circ}C}}{V_{1mA@25^{\circ}C}} \times \frac{1}{60} \times 100\%(\%/^{\circ}C), \quad \frac{V_{1mA@-40^{\circ}C}-V_{1mA@25^{\circ}C}}{V_{1mA@25^{\circ}C}} \times \frac{1}{60} \times 100\%(\%/^{\circ}C)$	$ \Delta V_{1mA}/V_{1mA} \leq 5\%$ No visible damage	

SOLDERING RECOMMENDATION

Wave Soldering Profile



Recommended Reworking Conditions with Soldering Iron

Item	Condition
Temperature of Soldering Iron-tip	360°C (max.)
Soldering Time	3 sec. (max.)
Distance From Varistor	2 mm (min.)

Metal Oxide Varistor Thermally Protected Type

TPV Series

MERITEK

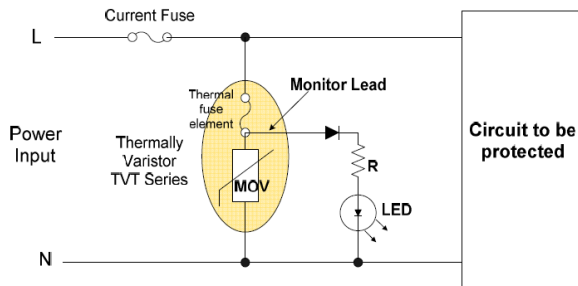
WAREHOUSE STORAGE CONDITION SPECIFICATION

Storage Conditions:

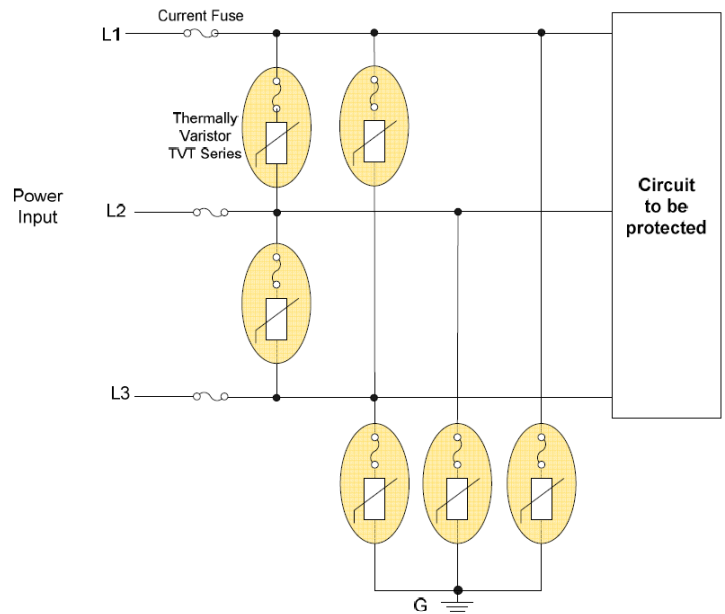
1. Storage temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 2. Relative humidity: $\leq 75\% \text{RH}$
 3. Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year

TYPICAL APPLICATION CIRCUIT

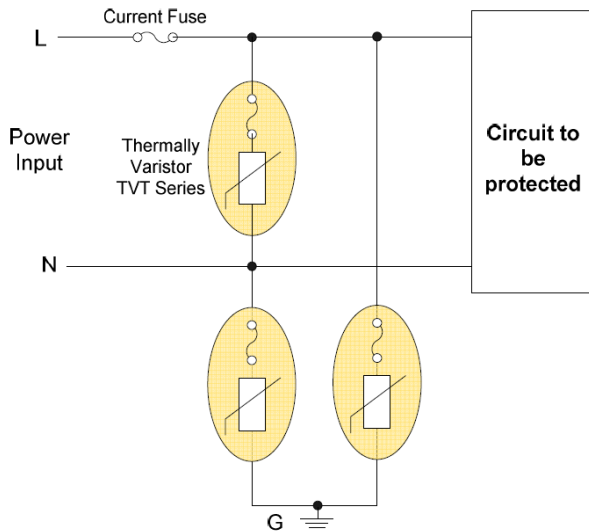
Signal Phase: Line to Line



Three Phase: Line to Line & Line to Ground



Signal Phase: Line to Line & Line to Ground



*Specifications subject to change without notice.