FEATURES

Wide operating voltages ranging from 4.0 Vrms to 35 Vrms
(5.5 Vdc to 45 Vdc)
Fast response, instantly clamping the transient over voltage
High surge current handling capability
High energy absorption capability
Low clamping voltages, providing better surge protection
Low capacitance values, providing digital switching circuitry protection
High insulation resistance, preventing electric arcing to the adjacent devices or circuits



APPLICATIONS

Universal Serial Bus (USB)	
Mobile communication	
Computer/DSP product	
Video and audio ports	
Portable/Hand- Held Products	
Portable/Hand- Held Products	

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

GENERAL CHARACTERISTICS DEFINITION

- Operating Temperature Range :-40°C ~ +85°C
- | Storage Temperature Range :-40°C ~ +125°C

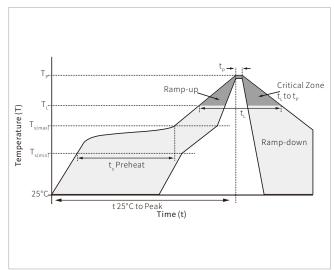


ELECTRICAL CHARACTERISTICS

Part Number	Max All Volt	owable tage	Varistor Voltage V _B @1mA	Energy 10/1000us	Withstanding Surge Current Ι _{ΡΡ} (8/20μs)	Max Cla Volta	mping ge V _c	Typical Capacitance (Reference)
	V _{RMS} (V)	V _{DC} (V)	(V)	J	(A)	V(V)	I(A)	(pF)
SMV0805B8.0A	4.0	5.5	8(6.6-9.9)	0.2	80	18	2	1100
SMV0805B12A	7.0	9.0	12(10.2-13.8)	0.2	100	24	2	750
SMV0805B18A	11.0	14.0	18(15.3-21.7)	0.2	100	30	2	600
SMV0805B22A	12.0	16.0	22(19.8-24.2)	0.2	100	36	2	580
SMV0805B24A	14.0	18.0	24(21.6-26.4)	0.2	100	38	2	480
SMV0805B27A	17.0	22.0	27(24.3-29.7)	0.2	100	44	2	400
SMV0805B30A	19.0	24.0	30(27.2-33.0)	0.2	100	48	2	400
SMV0805B33A	20.0	26.0	33(29.7-36.3)	0.2	100	54	2	380
SMV0805B36A	22.0	28.0	36(32.7-39.6)	0.2	100	59	2	350
SMV0805B39A	25.0	30.0	39(35.1-42.9)	0.2	100	65	2	350
SMV0805B42A	26.0	33.0	42(38.1-46.2)	0.2	80	72	2	350
SMV0805B47A	30.0	38.0	47(42.3-51.7)	0.2	80	77	2	280
SMV0805B56A	35.0	45.0	56(50.4-61.6)	0.2	80	90	2	280

SOLDERING PARAMETERS

	Lead-free assembly		
	Temperature Max $(T_{s(min)})$	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t_s)	60 – 180 secs	
Average ran	Average ramp up rate (Liquidus Temp (T _L) to peak		
	3°C/second max		
Reflow	Temperature (T _L) (Liquidus)	217°C	
Rellow	Time (min to max) (t_L)	60 – 150 seconds	
Peak Temp	260°C		
Time within	20 – 40 seconds		
Ramp-dow	6°C/second max		
Time 25°C t	8 minutes max.		
Do not exce	260°C		

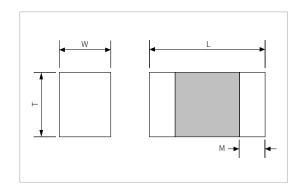




CHARACTERISTIC CURVES

Items	Test	Specifications	
Dry Heat Loading	The specimen shall be a allowable voltage at the and then stored at room 2 hours . Thereafter, the shall be examined .Amb	period dity over $\triangle V_b / V_b \le 10\%$	
High Temp Storage	In a dry oven w Ambient temp:	s $\Delta V_b/V_b \leq 10\%$	
Damp Heat/ Humidity Loading	The specimen shall be allowable voltage at period and then store humidity over 2 hour mechanical damage 40±2°C,90~95%RH/I	fied mal $_{\triangle}V_{b}/V_{b} \leqslant 10\%$	
Temperature Cycle	Condition the speciment to step 4 in this or- derivative specifications. The chabe examined after 2 ho Step 1 Step 2 Step 3 Step 4	of	Œ
Low Temp Storage	In a cooling cha Ambient temp:	$_{\Delta}V_{b}/V_{b} \leq 10\%$	

DIMENSION SPECIFICATION



Size	L(mm)	W(mm)	T(mm)	M(mm)	
0805	2.00±0.20	1.25±0.20	0.85±0.20	0.50±0.30	





SMD Disc Varistors

DRDERING INF ORMATIOON

Part Number	Component Package	QTY/Reel	Reel Size
SMV0805 Series	0805	4000PCS	7"







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