

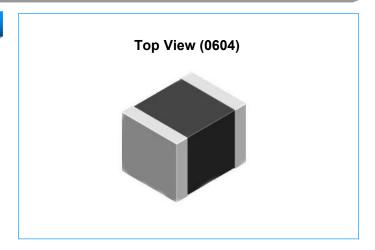


Socay High Surge Micro Varistor

SV0604H271G0A

Features

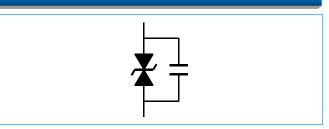
- RoHS Compliant.
- Meet IEC 61000-4-5 standard.
- SMD type zinc oxide based ceramic chip.
- Insulator overcoat keeps excellent low and stable leakage current.
- Quick response time (<0.5ns).
- High transient current capability.
- High reliability.
- ◆ Compact size for EIA 0604.



Applications

Protection against high working voltage applications
 Related transient over voltage.





Electrical Characteristics (25±5℃)

Symbol	Minimum	Typical	Maximum	Units
V _{RMS}	_	_	175	V
V _{DC}	_	_	225	V
V _V	243	_	297	V
I _L		-	30	μA
Vc	_	_	450	V
I _{max}	_	_	30	А

Notes

 V_{RMS} - Maximum AC operating voltage the varistor can maintain .

 V_{DC} - Maximum DC operating voltage the varistor can maintain .

I_L- Leakage current at Vv × 80%

Cp - Device capacitance measured with zero volt bias 1Vrms.

 $\mbox{V}_{\mbox{V}}$ - Voltage across the device measure at 1mA DC current. Equivalent to VB "breakdown voltage".

V_C - Maximum peak current across the varistor with 8/20µs waveform and 1A pulse current.

 I_{max} - Maximum peak current which may be applied with 8/20 μ s waveform without device failure.

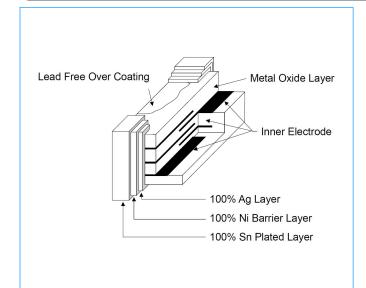


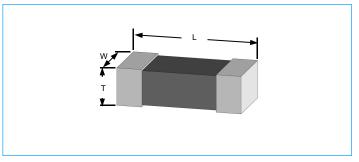


Socay High Surge Micro Varistor

SV0604H271G0A

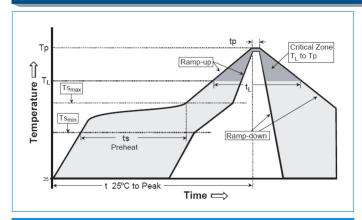
Construction & Dimensions





Size EIA (EIAJ)	0604
Symbol	Millimeters
L	1.60±0.20
w	1.10±0.20
Т	1.30 Max

Soldering Parameters



Precaution for Soldering

Note that this product will be easily damaged by rapid heating, rapid cooling or local heating.

Do not give heat shock over 100°C in the process of soldering. We recommend to take preheating and gradual cooling

Soldering gun procedure

Note the follows, in case of using solder gun for replacement.

- 1) The tip temperature must be less than 350°C for the period within 3 seconds by using soldering gun under 30W
- 2) The soldering gun tip shall not touch this product directly.

Soldering volume

Note that excess of soldering volume will easily get crack the body of this product.

Reflow Condition		Pb-Free assembly
Pre Heat	-Temperature Min (T _{s(min)})	+150°C
	-Temperature Max (T _{s(max)})	+200°C
	-Time (min to max) (t _s)	60 -180 Seconds
T _{S(max)} to T _P - Ramp-up Rate		3°C/Second Max
Reflow	- Temperature (T _L) (Liquidus)	+217°C
	- Time (min to max) (t _L)	60 -150 Seconds
Peak Temperature (T _P)		260 °C
Time within 5°C of actual peak Temperature (t _P)		20-40 Seconds
Ramp-down Rate		6°C/Second Max
Time 25°C to peak Temperature (T _P)		8 minutes Max





Socay High Surge Micro Varistor

SV0604H271G0A

General Technical Data

Operating Temperature		-40 ~ +125°C
Storage Temperature		-40 ~ +125°C
Response Time		<1 ns
Solderability		245±5°C,5 +0/-0.5sec
Solder leach resistance		260±5°C, 10±1sec
Taping Package Storage Condition	Storage Temperature	5 ~ 40°C
	Relative Humidity	To 65%
	Storage Time	12 Months max

Packaging

Part Number	Quantity
SV0604H271G0A	3000Pcs