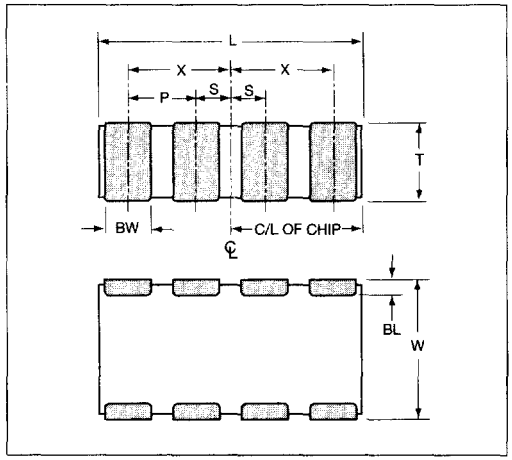
Transient Voltage Suppressors

MultiGuard 4-Element TVS Array - 0612



HOW TO ORDER

MG 06 4 S 14 A 300 T
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **MultiGuard**

② **Chip Size:** 06=0612

③ **Configuration:** 4=4 Elements

④ **Style:** S=Standard Construction
L=Low Capacitance

⑤ **Working Voltage:**
05=5.6V 14=14.0V
09=9.0V 18=18.0V

⑥ **Energy Rating:**
A=0.10 Joules
X=0.05 Joules

⑦ **Clamping Voltage:**
150=15.5V 400=40.0V
200=20.0V 500=50.0V
300=30.0V

⑧ **Packaging (Pcs/Reel):**
D=1,000
R=4,000
T=10,000

Dimensions: millimeters (inches)

L	W	T	BW	BL	P	X	S
3.20±0.2	1.60±0.2	1.22 MAX	0.41±0.1	$0.18^{+0.25}_{-0.08}$	0.76 REF	1.14±0.1	0.38±0.1
(.126±.008)	(.063±.008)	(.048 MAX)	(.016±.004)	$(.007^{+.010}_{-.003})$	(.030 REF)	(.045±.004)	(.015±.004)

Electrical Characteristics Per Element

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_C	V_C	I_{peak}	E_{trans}	C	I_L
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	µ Amp (max.)
Test Condition	<50µA	1nA DC	8/20µS†	8/20µs	10/1000µS	0.5Vrms @: 1MHz	@V_{WM}
MG064S05A150	5.6	7.6 - 9.3	15.5	30	0.1	825	<1.0
MG064S09A200	9.0	11.0 - 14.0	20	30	0.1	550	<1.0
MG064S14A300	14.0	16.5 - 20.3	30	30	0.1	425	<1.0
MG064S18A400	18.0	22.9 - 28.0	40	30	0.1	220	<1.0
MG064L18X500	≤18.0*	N/A	50	30	0.05	<75	<1.0

*Test Condition = <25µA

V_{WM}—Maximum steady-state DC operating voltage the varistor can maintain and not exceed 50µA leakage current
V_B—Voltage across the device measured at 1mA DC current
V_C—Maximum peak voltage across the varistor measured at a specified pulse current and waveform

†Transient Energy Rating	Pulse Current & Waveform
.1 Joule	2A 8/20µS
.05 Joules	1A 8/20µS

I_{peak}—Maximum peak current which may be applied with the specified waveform without device failure
E_{Trans}—Maximum energy which may be dissipated with the specified waveform without device failure
C—Device capacitance measured with zero volt bias at 0.5Vrms and 1MHz
L—Device inductance measured with a current edge rate of 100mA/nS