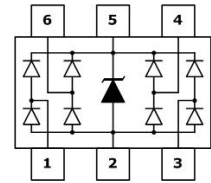
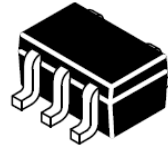


## BV\_LC0504F Transient Voltage Suppressor



### FEATURES

- 150 Watts peak pulse power per Line(tp=8/20μS)
- Protects four I/O lines
- Low clamping voltage
- RoHS Compliant
- Moisture sensitivity level: Level 1
- Weight 6 Milligrams (Approximate)



### IEC COMPATIBILITY

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 12A (8/20μs)

SOT-363

### APPLICATIONS

- USB OTG
- Video Graphics Cards
- Monitors and Flat Panel Displays
- High-Definition Multimedia Interface (HDMI)
- 10/100/1000 Ethernet
- IEEE 1394 Firewire Ports
- SIM Ports
- ATM Interfaces

### Electrical Parameter @ T=25°C RH = 45%-75%

RATING	SYMBOL	VALUE	UNITS
Peak pulse power(tp=8/20us waveform)	PPP	150	Watts
Lead soldering temperature	TL	260(10sec)	°C
operating temperature range	TJ	-55~150	°C
Storage Temperature Range	TSTG	-55~150	°C

### PART NUMBER AND ELECTRICAL PARAMETER @ T=25°C RH = 45%-75%

Part Number	Marking	VDRM	IDRM	VBR	IR	Vc	Ipp	Vc	Ipp	Co
		V	μA	V	mA	V	A	V	A	pF
			MAX	MIN		MAX		MAX		MAX
BV_LC0504F	B54	5	1	6.5	1	15	1	25	6	2

- ①、Off-state capacitance is measured in VDC=0V,VRMS=1V,F=1MHz
- ②、All measurements are made at an ambient temperature of 25°C
- ③、Surge Waveform: 8/20μS

### PART NUMBERING SYSTEM

BV                      LC0504F

(1)                              (2)

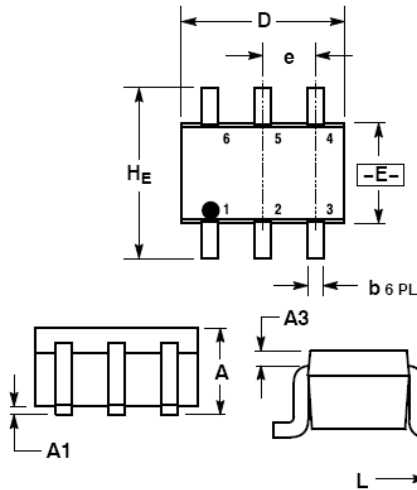
(1) Bencent Transient Voltage Suppressor

(2) Series: LC0504F etc.

## BV\_LC0504F Transient Voltage Suppressor

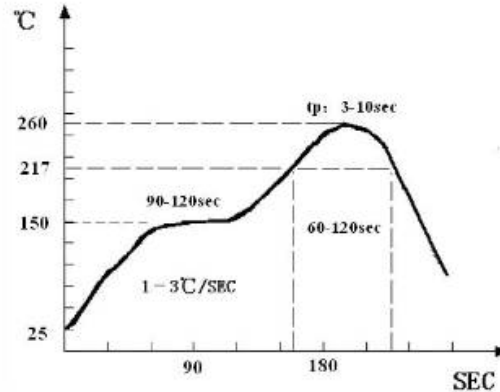
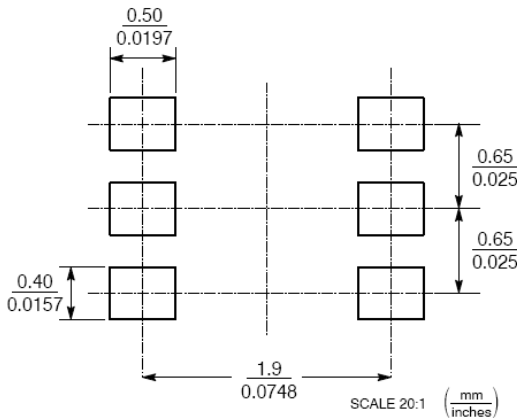
RoHS

### DIMENSIONS



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.95	1.10	0.031	0.037	0.043
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.20 REF			0.008 REF		
b	0.10	0.21	0.30	0.004	0.008	0.012
C	0.10	0.14	0.25	0.004	0.005	0.010
D	1.80	2.00	2.20	0.070	0.078	0.086
E	1.15	1.25	1.35	0.045	0.049	0.053
e	0.65 BSC			0.026 BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
HE	2.00	2.10	2.20	0.078	0.082	0.086

### RECOMMENDED SOLDERING PAD AND REFLOW PROFILE



OUTLINE	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)	CARTON SIZE(mm)		
				L	W	H
TAPING	3,000	90,000	177	360	370	220

**Remark:**

Add the parameter of Moisture sensitivity level  
Add item of unit Weight

### Special Notes

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