

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.

IEC COMPATIBILITY

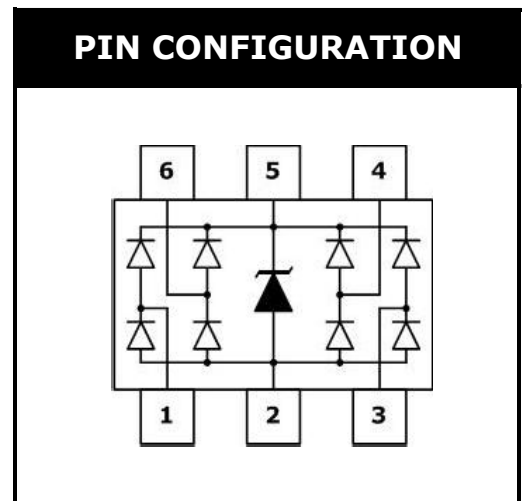
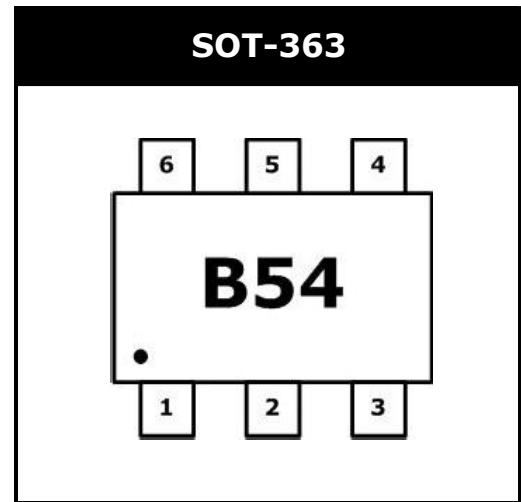
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 12A (8/20 μs).

FEATURES

- ✧ 150 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects four I/O lines.
- ✧ Low clamping voltage.
- ✧ Working voltages : 5V.
- ✧ Low leakage current.

MECHANICAL CHARACTERISTICS

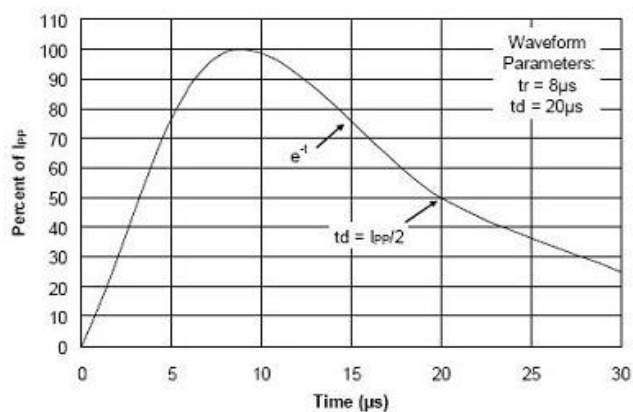
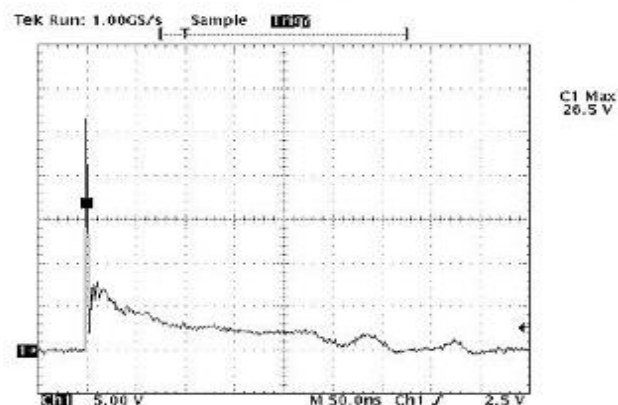
- ✧ JEDEC SOT-363 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 8 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.



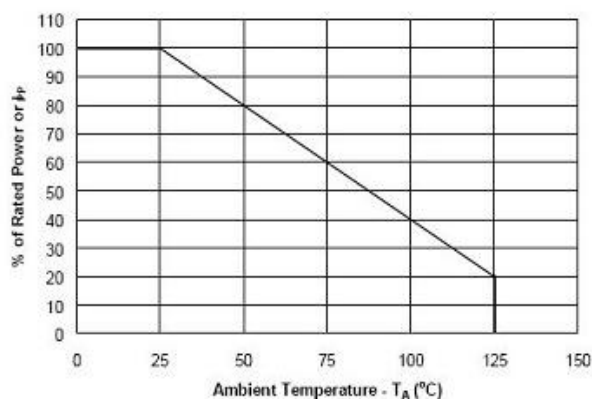
DEVICE CHARACTERISTICS

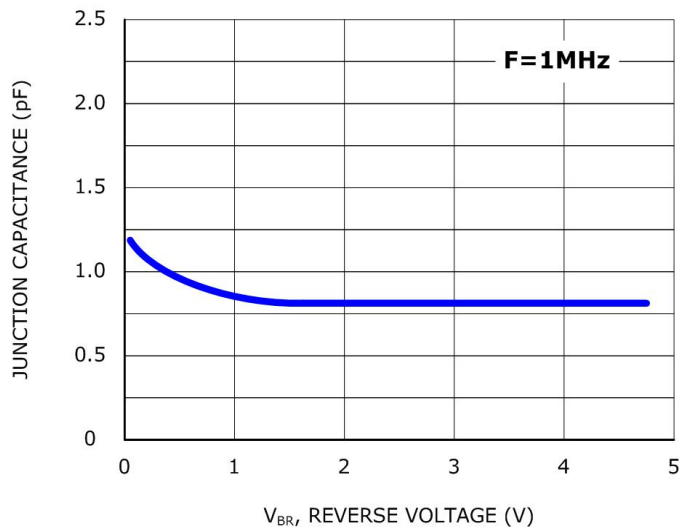
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	150	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)	I _R (μA) (max.)	C _T (pF) (max.)	
LC0504F	B54	5.0	6.0	1	15.0	25.0	6	1	2

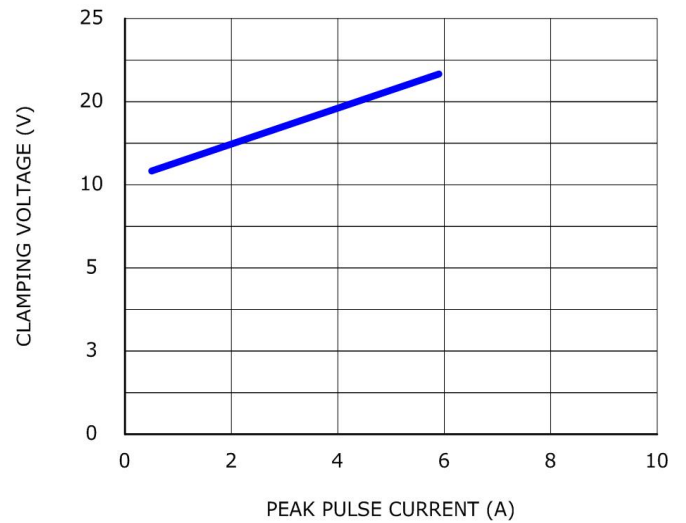
Pulse Waveform

ESD Response (8kV Contact per IEC 61000-4-2)


Note: Data is taken with a 10x attenuator

Power Derating Curve


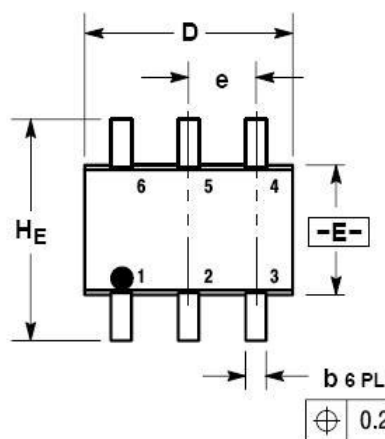


Normalized Capacitance vs. Reverse Voltage

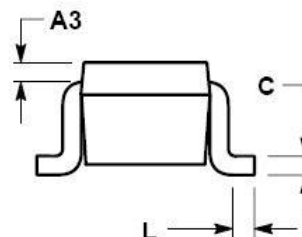
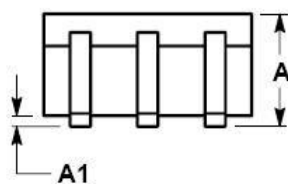


Clamping Voltage vs. Peak Pulse Current

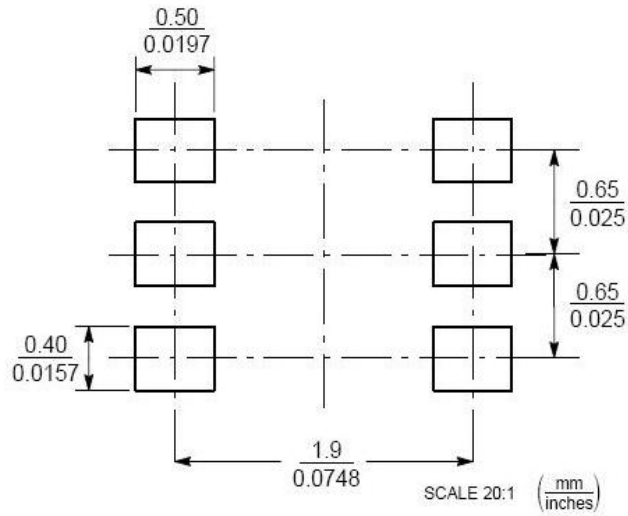
SOT-363 PACKAGE OUTLINE & DIMENSIONS



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
H _F	2.00	2.10	2.20	0.078	0.082	0.086



*** SOLDERING FOOTPRINT**



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