

LEF03216F6-2

ESD/EMI PROTECTION DEVICE

STAND-OFF VOLTAGE - 5.0 Volts

GENERAL DESCRIPTION

The LEF01016F6-2 is a low pass filter array with integrated TVS diodes for ESD protection. It is designed to provide bidirectional filtering of EMI/RFI signals and electrostatic discharge (ESD) protection in portable electronic equipment. This state-of-the-art device utilizes solid-state silicon-avalanche technology for superior clamping performance and DC electrical characteristics. They have been optimized for use on a microphone port in cellular phones and other portable electronics.

FEATURES

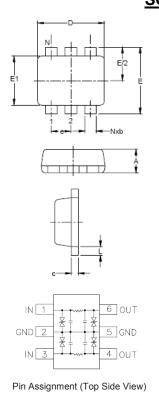
- Bidirectional EMI/RFI filter with integrated ESD protection
- Protects two I/O lines
- IEC 61000-4-2, level 4 (ESD), > ±15KV (air) ; > ±8KV (contact)

APPLICATION

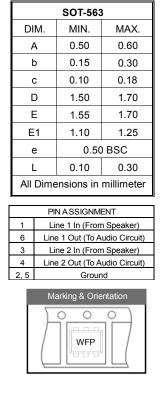
- Cellular Handsets & Accessories
- Cordless Phones
- Personal Digital Assistants (PDAs)
- Webpads & Handhelds
- Notebook
- Portable Instrumentation
- MP3 Players

MECHANICAL DATA

- Case Material: "Green" molding compound UL flammability classification 94V-0 (No Br.Sb, Cl)
- Terminals: Lead Free Plating (Matte Tin Finish)
- Component in accordance to RoHs 2002/95/E



<u>SOT-563</u>



MAXIMUM RATINGS (Tj= 25°C unless otherwise noticed)

Rating	Symbol	Unit	
DC Power per Resistor	Р	100 (Max)	mW
Operating Junction Temperature Range	TJ	-55 to + 125	°C
Storage Temperature Range	Tstg	-55 to + 150	°C
Soldering Temperature, t max = 10s	T∟	260	°C

ELECTRICAL CHARACTERISTICS (Tj= 25°C unless otherwise noticed)

Parameter	Symbol	Conditions	MIn	Тур	Мах	Unit
TVS Reverse Stand-Off Voltage	V _{RWM}				5	V
TVS Reverse Breakdown Voltage	VBR	IR = 1 mA	6			V
TVS Reverse Leakage Current	IRM	V _{DRM} = 5V			5	μA
Series Resistance	R	Each Line	27	32	37	Ohms
Capacitance	CJ	Any I/O to Ground, VR = 0V, f = 1MHz			160	pF
				REV. 1, Oct-2010, KSIR25		

RATING AND CHARACTERISTIC CURVES LEF03216F6-2

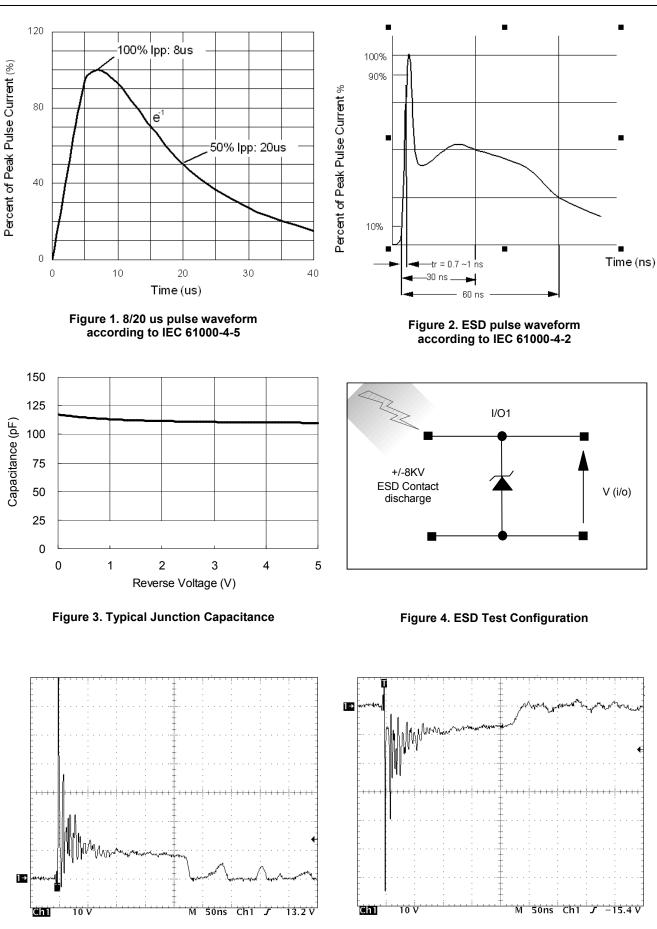
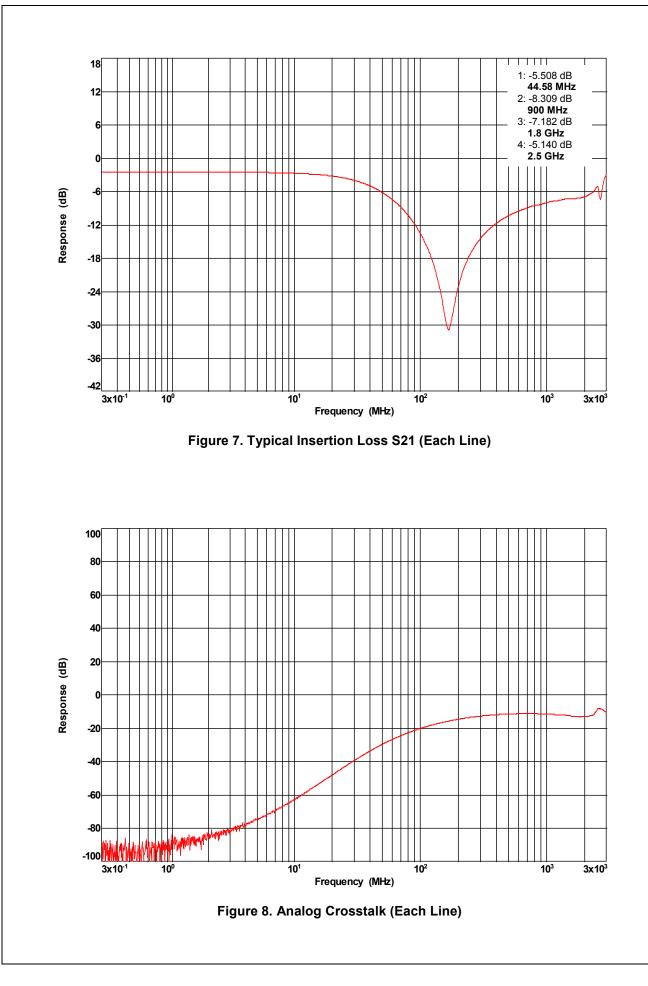




Figure 6. Clamped -8 kV ESD voltage waveform

RATING AND CHARACTERISTIC CURVES LEF03216F6-2



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