



Unidirectional Ultra Low Capacitance TVS Array

DESCRIPTION

The KGBLCxxI-LF-T7 are ultra low capacitance transient voltage suppressor arrays, designed to protect applications such as portable electronics and SMART phones. This series is available in unidirectional configurations and is rated at 350 Watts for an 8/20µs waveshape.

The KGBLCxxI-LF-T7 meets IEC 61000-4-2 (ESD) and IEC 61000-4-4 (EFT) requirements. At higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. This series offers an ultra low capacitance and low leakage current in a miniature SOD-323 package.

FEATURES

- \diamond IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦ Working voltages: 3V, 5V, 8V, 12V, 15V, 24V
- ♦Low leakage current
- ♦ Response Time is < 1 ns

MACHANICAL DATA

- ♦SOD-323 package
- ♦Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- \diamond High temperature soldering guaranted:260 $^{\circ}$ C /10s
- ♦Reel size: 7 inch
- ♦MSL1

ORDERING INFORMATION

Device: KGBLCxxI-LF-T7Package: SOD-323Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- ♦ Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦ Notebooks, Desktops, and Servers
- ♦ Portable Instrumentation
- ♦ Peripherals
- ♦USB Interface

PIN CONFIGURATION

1 2

PACKAGE OUTLINE





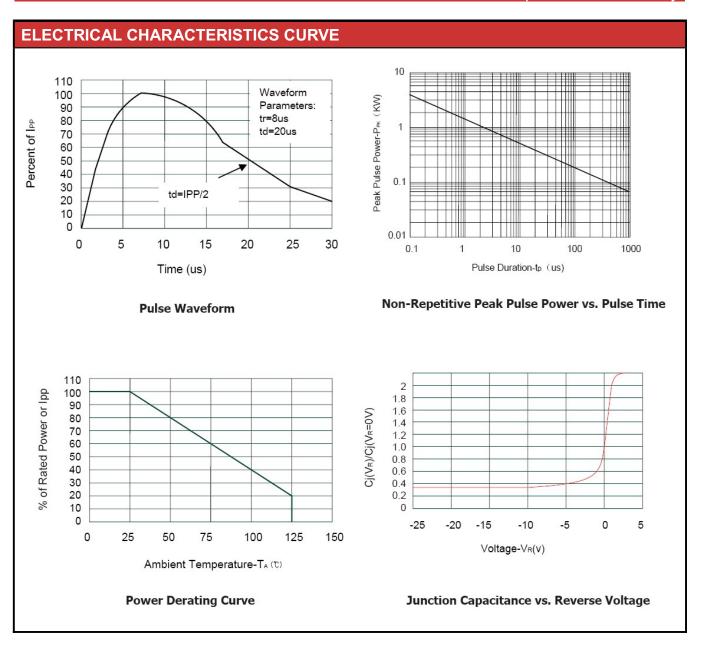
ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P _{PP}	Peak Pulse Power (8/20µs)	350	W				
T _{OPT}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
TL	Lead Soldering Temperature	260	°C				

ELECTRICAL CHARACTERISTICS (Tamb=25°C)										
PART NUMBER	DEVICE MARKING	V _{RWM} (V)	V _B @1mA (V)	V _C @1A (V)	V _C @ (\) /)	V _C @ (V		I _R (µA)	С _т (pF)
		Max	Min	Max	Max	lpp (A)	Max	lpp (A)	Max	Тур.
KGBLC03I-LF-T7	С	3.0	4.0	7.0	13.9	8	20.0	20	5	0.8
KGBLC05I-LF-T7	Α	5.0	6.0	9.8	18.3	8	20.0	18	1	0.8
KGBLC08I-LF-T7	В	8.0	8.5	13.4	18.5	8	24.0	18	1	0.8
KGBLC12I-LF-T7	D	12.0	13.3	19.0	24.0	6	28.6	12	1	0.8
KGBLC15I-LF-T7	E	15.0	16.7	24.0	29.0	5	31.8	10	1	0.8
KGBLC24I-LF-T7	Н	24.0	26.7	43.0	45.0	3	56.0	6	1	0.8



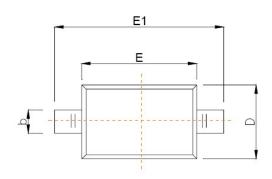


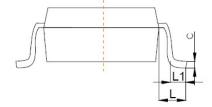
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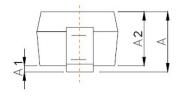


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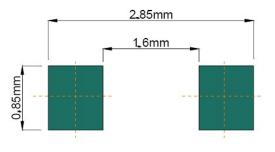
SOD-323 PACKAGE OUTLINE DIMENSIONS







Symbol	Dimensions In Millimeters				
Syllibol	Min	Max			
Α		1.00			
A1	0.000	0.100			
A2	0.800	0.900			
b	0.250	0.350			
С	0.080	0.150			
D	1.200	1.400			
E	1.600	1.800			
E1	2.500	2.700			
е	1.800	2.040			
L	0.475 REF				
L1	0.250	0.400			
θ	0°	8°			



Recommended Pad outline