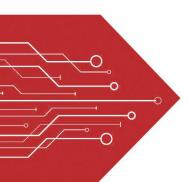
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

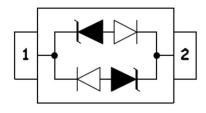
Broduct data sheet





SOD-323

PIN CONFIGURATION



FEATURES

- → Transient protection for high-speed data lines
 IEC 61000-4-2 (ESD) ±30kV (Contact)
 ±30kV (Air)
 - IEC 61000-4-4 (EFT) 40A (5/50 ns)
- ♦ Protects one I/O line (bidirectional)
- ♦ Working voltages : 3V, 5V, 8V, 12V, 15V, 18V, 20V, 24V, 36V
- ♦ Low clamping voltage
- ♦ Low leakage current
- ♦ Response time is < 1 ns

MACHANICAL DATA

- ♦ SOD-323 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranteed: 260°C/10s
- ♦ Reel size: 7 inch
- ♦ MSL1

APPLICATIONS

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





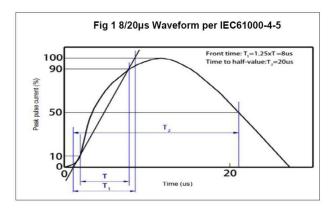
Bi-directional Ultra Low Capacitance TVS Array

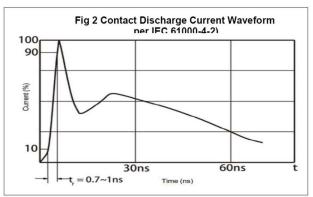
ABSOLUTE MAXIMUM RATING					
Symbol	Parameter	Value	Units		
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV		
P _{PP}	Peak Pulse Power (8/20µs)	350	W		
Торт	Operating Temperature	-55/+150	°C		
T _{STG}	Storage Temperature	-55/+150	°C		
TL	Lead Soldering Temperature	260	°C		

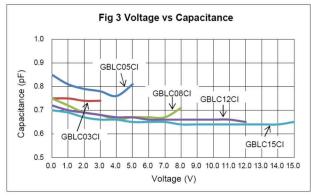
ELECTRICAL CHARACTERISTICS (Tamb=25°C)										
P/N	MARK	V _{RWM} (V)	V _B @1mA (V)	V _C @1A (V)	A V _C @Ipp (V)		V _C @Ipp (V)	I _R (μΑ)	C⊤ (pF)	
		Max	Min	Max	Max	lpp (A)	Max	lpp (A)	Max	Тур.
GBLC03CI	CC	3.0	4.0	7.0	13.9	8	20.0	20	5	0.8
GBLC05CI	AC	5.0	6.0	9.8	18.3	8	20.0	18	1	0.8
GBLC08CI	ВС	8.0	8.5	13.4	18.5	8	24.0	18	1	0.8
GBLC12CI	DC	12.0	13.3	19.0	24.0	6	28.6	12	1	0.8
GBLC15CI	EC	15.0	16.7	24.0	29.0	5	31.8	10	1	0.8
GBLC18CI	FC	18.0	20.0	35.0	45.0	5	53.0	7	1	0.8
GBLC20CI	GC	20.0	22.0	38.0	45.0	4	55.0	7	1	0.8
GBLC24CI	HC	24.0	26.7	43.0	45.0	3	56.0	6	1	0.8
GBLC36CI	IC	36.0	40.0	60.0	65.0	2	75.0	4.5	1	0.8

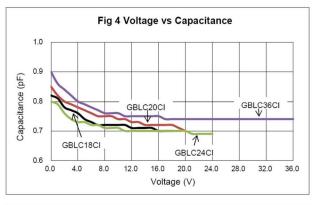


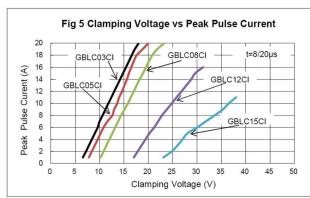
ELECTRICAL CHARACTERISTICS CURVE

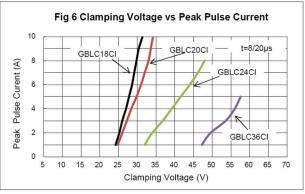






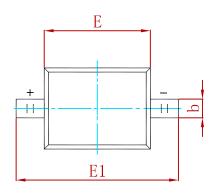


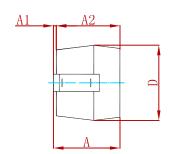


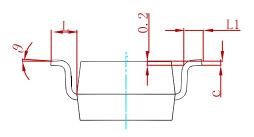




PACKAGE MECHANICAL DATA

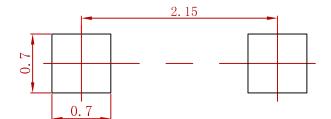






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L,	0.475	REF.	0.019	REF.	
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
GBLCXXCI	SOD-323	3000



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