

# DBLC03C THUR 24C

## DBLC03C THUR 24C Bi-directional Ultra Low Capacitance TVS Array

### General description

Bi-directional Ultra Low Capacitance TVS Array  
in a SOD-323 Package.

### FEATURES

- Low clamping voltage
- Low leakage current
- Working voltages : 3V, 5V, 8V, 12V, 15V, 24V
- Response time is < 1 ns

### APPLICATIONS:

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

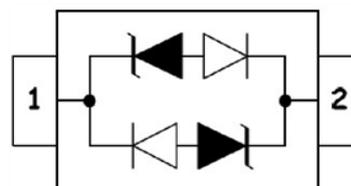
### MACHANICAL DATA

- SOD-323 package
- Flammability Rating: UL 94V-0
- MSL1
- High temperature soldering guaranteed:260°C/10s

### Package Outline



### SOD-323 Package



### PIN CONFIGURATION

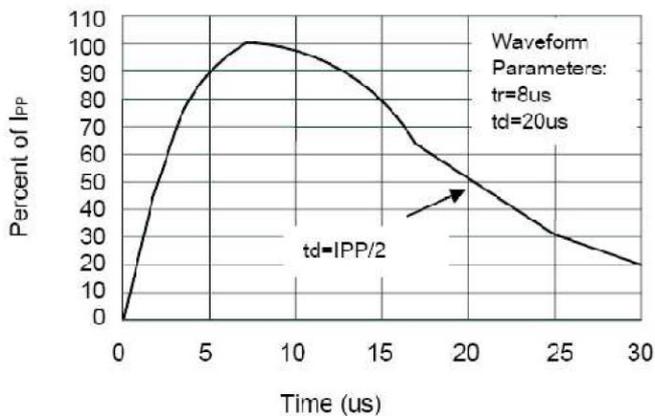
### ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Units
VESD	ESD per IEC 61000-4-2 (Air)	±15	kV
	ESD per IEC 61000-4-2 (Contact)	±8	
PPP	Peak Pulse Power (8/20µs)	300	W
TOPT	Operating Temperature	-55~150	°C
TSTG	Storage Temperature	-55~150	°C
TL	Lead Soldering Temperature	260	°C

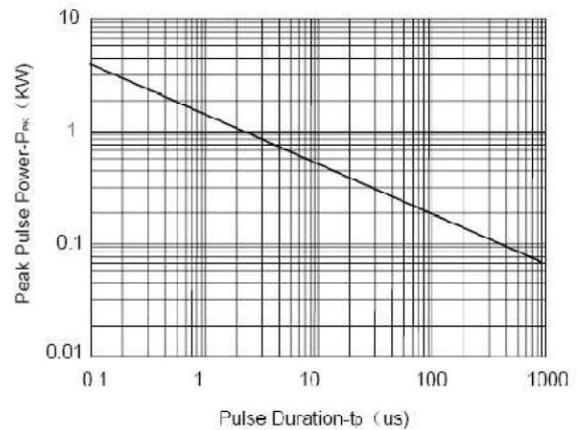
# DBLC03C THUR 24C

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V <sub>RWM</sub>	V <sub>B</sub>	I <sub>T</sub>	V <sub>C@1A</sub>	V <sub>C</sub>		I <sub>R</sub>	C <sub>T</sub>
		(V) (max.)	(V) (min.)	(mA)	(V) (max.)	(V) (max.) (@A)	(μA) (max.)	(pF) (typ.)	
DBLC03C	CC or 3B	3.0	4.0	1	7.0	13.9	8	2	0.8
DBLC05C	AC	5.0	6.0	1	9.8	18.3	8	1	0.8
DBLC08C	BC	8.0	8.5	1	13.4	18.5	8	1	0.8
DBLC12C	DC	12.0	13.3	1	19.0	28.6	6	1	0.8
DBLC15C	EC	15.0	16.7	1	24.0	31.8	5	1	0.8
DBLC24C	HC	24.0	26.7	1	43.0	56.0	3	1	0.8

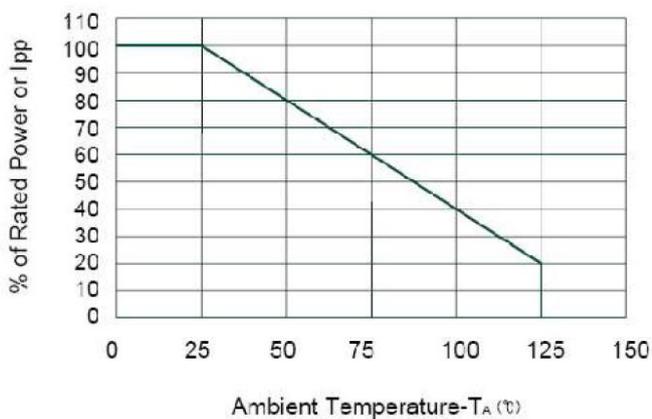
## Typical Characteristic:



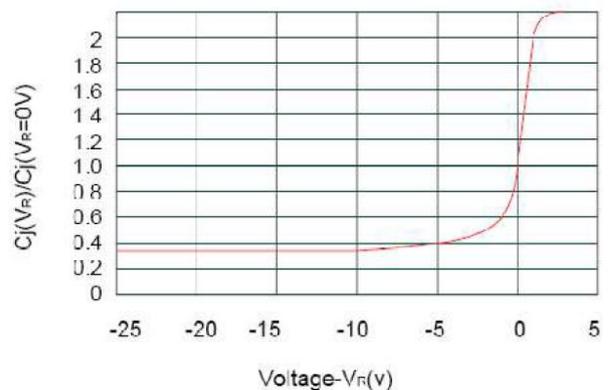
Pulse Waveform



Non-Repetitive Peak Pulse Power vs. Pulse Time



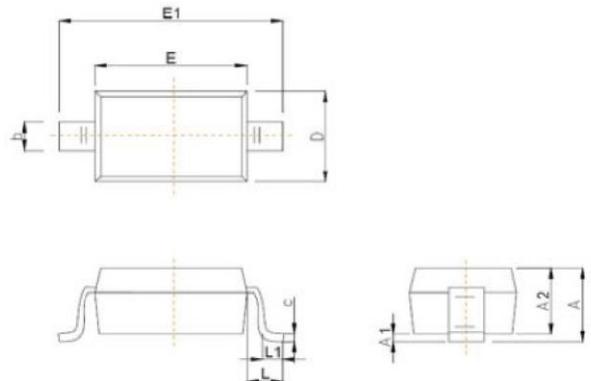
Power Derating Curve



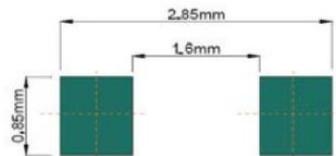
Junction Capacitance vs. Reverse Voltage

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## SOD-323 PACKAGE OUTLINE DIMENSIONS



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



**Recommended Pad outline**

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