

GDT Product Specification

B3DxxxL SMD Gas Discharge Tube (7.6×5×5mm)

RoHS

1、FEATURES

- Surface Mounting Design UL Certified E232249
- High Current Handling Capability 5,000A @ 8/20 μ s
- Low Capacitance and Insertion Loss
- QuickResponse and Long Service Life



2、PART NUMBER AND ELECTRICAL PARAMETER @ T=25°C RH = 45%-75%

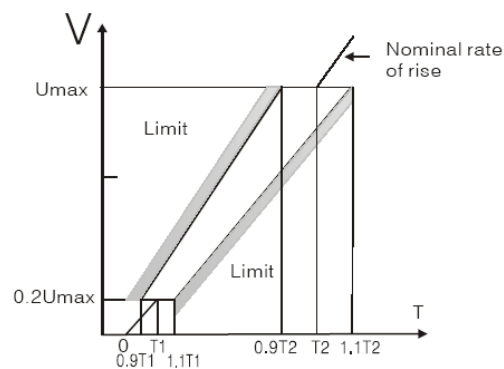
Part Number	DC Breakdown Voltage①	Tolerance of Vs	Impulse Spark-over Voltage 1kV/ μ s	Impulse Discharge Current②③ 8/20 μ s	Insulation Resistance		Capacitance ④ (1MHz)
	100V/s				G Ω	DC	
B3D090L	90V	$\pm 25\%$	$\leq 700V$	5,000A	≥ 1	50V	$\leq 1.5pF$
B3D150L	150V	$\pm 20\%$	$\leq 800V$	5,000A	≥ 1	50V	$\leq 1.5pF$
B3D230L	230V	$\pm 20\%$	$\leq 800V$	5,000A	≥ 1	100V	$\leq 1.5pF$
B3D350L	350V	$\pm 20\%$	$\leq 800V$	5,000A	≥ 1	100V	$\leq 1.5pF$
B3D420L	420V	$\pm 20\%$	$\leq 900V$	5,000A	≥ 1	100V	$\leq 1.5pF$

- ①、 The parameters of all are tested by ITU-T K12
- ②、 Total Impulse Discharge Current 5,000A @ 8/20 μ s by IEC 61000-4-5, 10 shots
- ③、 Currents through center electrode, half value through each line electrode
- ④、 The capacitance are tested by 1MHz
- ⑤、 The V-T waveform of DCBV and IPBVmus lie

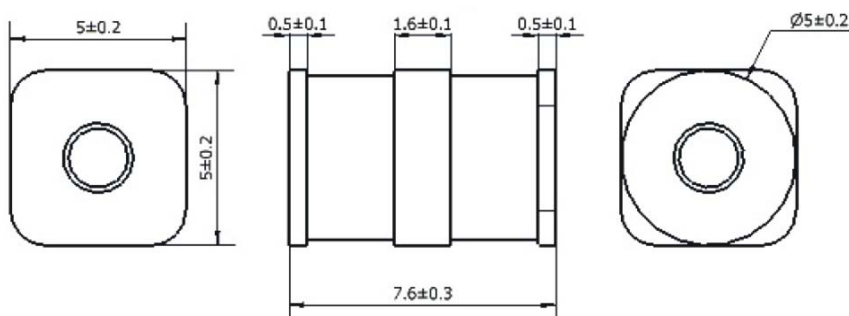
3、PART NUMBERING SYSTEM

B3D xxx L
(1) (2) (3)

- (1) LangTuon 3-Electrode SMD Gas Discharge Tube
- (2) DC Breakdown Voltage, e.g., 090=90V
- (3) Surge Rating @8/20 μ s, L=5,000A



4、DIMENSIONS AND MARKING



Unit:mm

Surface Mark:

B3D090L - Part Number

0801 - Production Date

08 : Year 2008

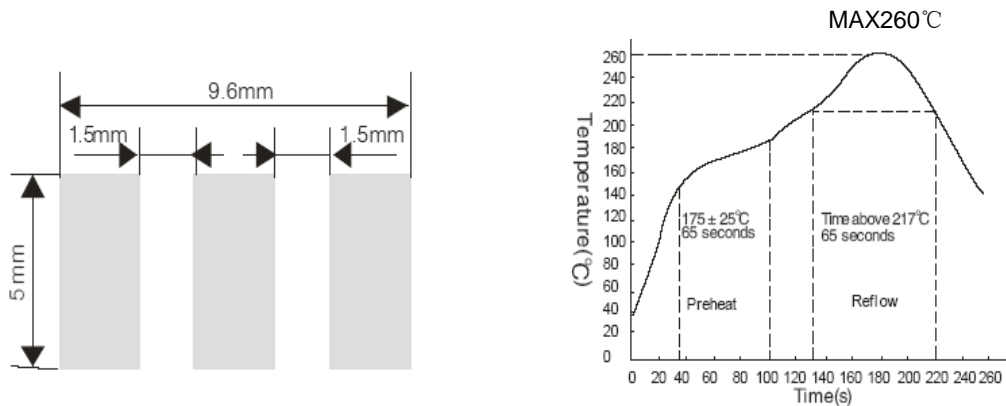
01 : Month 1, January

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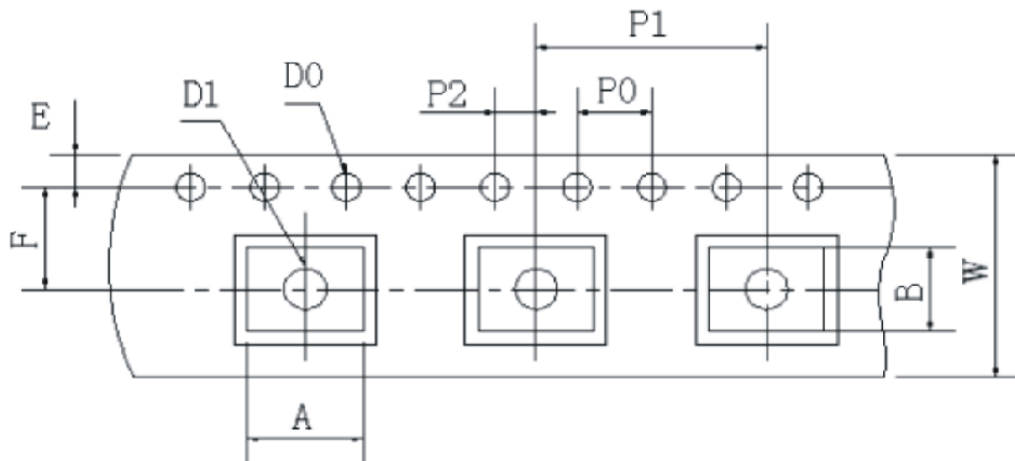
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5、RECOMMENDED SOLDERING PAD AND REFLOW PROFILE



6、PACKAGE REEL INFORMATION



ITEM	DIM(mm)
A	5.40±0.10
B	8.4±0.10
D0	1.50±0.10
D1	1.5±0.1
E	1.75±0.10
F	7.5±0.1
P0	4.0±0.1
P1	8.0±0.10
P2	2.0±0.1
W	16.0±0.30

OUTLINE	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)	CARTON SIZE(mm)		
				L	W	H
TAPING	1,000	16,000	330	360	360	360

Remark:

Special Notes