





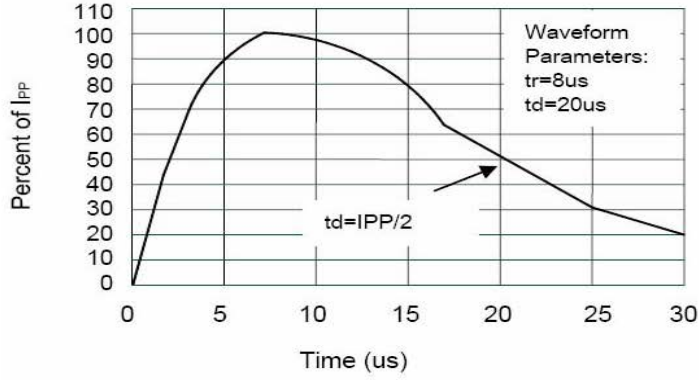
**Absolute Maximum Rating**

Symbol	Parameter	Value	Units
V <sub>ESD</sub>	ESD per IEC 61000-4-2 (Air)	±30	kV
	ESD per IEC 61000-4-2 (Contact)	±30	
P <sub>PP</sub>	Peak Pulse Power (8/20μs)	350	W
T <sub>OPT</sub>	Operating Temperature	-55/+150	°C
T <sub>STG</sub>	Storage Temperature	-55/+150	°C
T <sub>L</sub>	Lead Soldering Temperature	260 (10 sec.)	°C

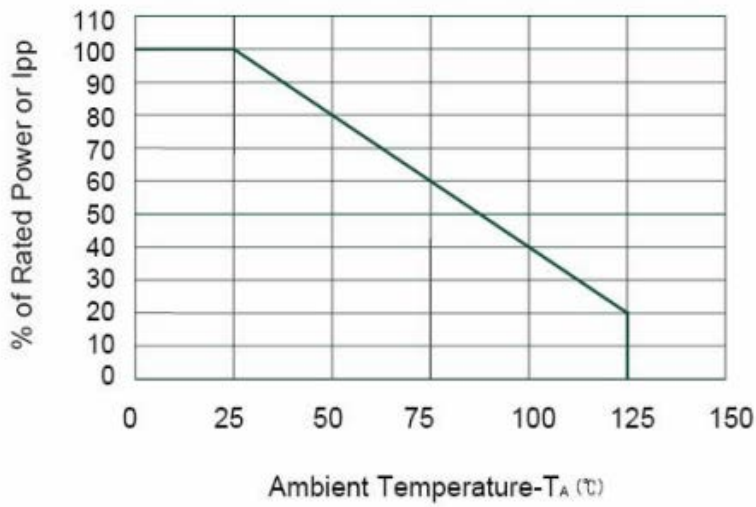
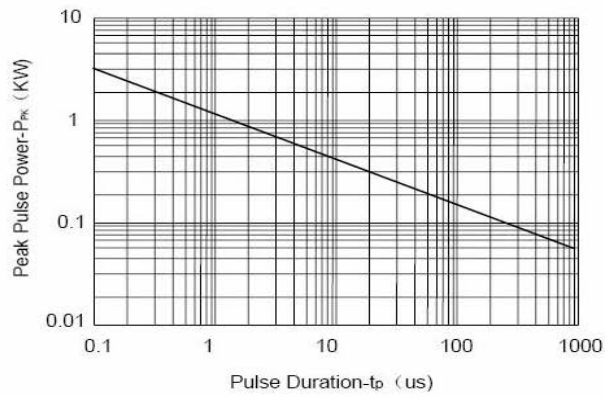
**Electrical Characteristics (T = 25°C)**

PART NUMBER	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>	DEVICE MARKING
	(V) (max.)	(V) (min.)	(mA)	(V) (max.)	(max.)	(@A)	(μA) (max.)	(pF) (max.)	
TS0501LBX	5	6.0	1	10	24	19	0.1	80	5L
TS0801LBX	8	9.2	1	15	28	15	0.1	70	8L
TS1201LBX	12	13.3	1	19	32	12	0.1	60	CL
TS1501LBX	15	16.7	1	24	36	10	0.1	50	FL
TS1801LBX	18	20.4	1	28	45	8	0.1	40	IL
TS2401LBX	24	26.7	1	36	50	5	0.1	30	OL
TS3601LBX	36	40.0	1	50	60	4	0.1	20	KL

**Typical Characteristics**



**Pulse Waveform**



**Power Derating Curve**

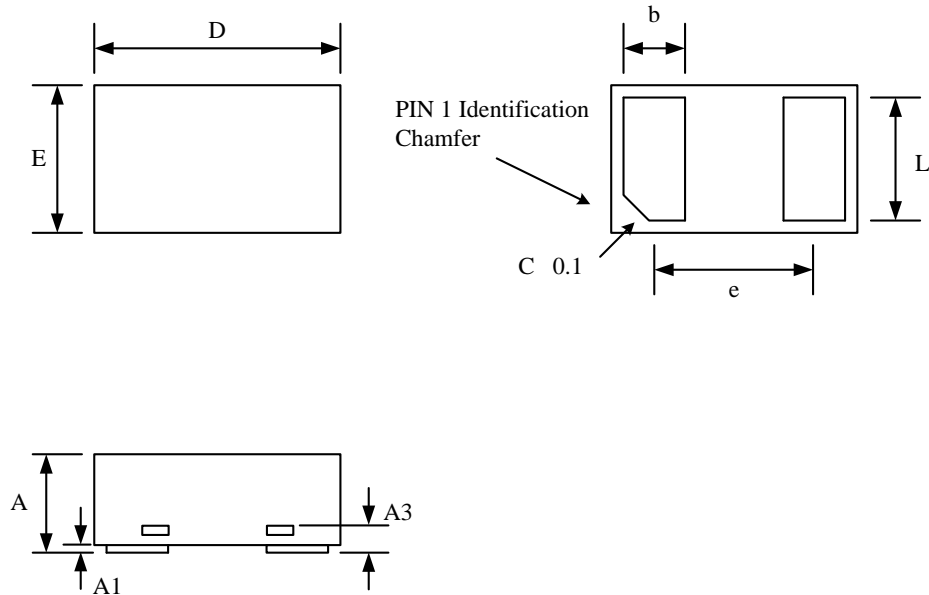


### IEC61000-4-5 EOS Test (1.2/50uS, 8/20uS)

TS0501LBX	TS0801LBX	TS1201LBX																																																																		
<table border="1"><caption>Approximate data for TS0501LBX</caption><thead><tr><th>Maximum Peak Pulse Current (A)</th><th>Clamping Voltage (V)</th></tr></thead><tbody><tr><td>0</td><td>8.5</td></tr><tr><td>2</td><td>9.0</td></tr><tr><td>4</td><td>9.5</td></tr><tr><td>6</td><td>10.0</td></tr><tr><td>8</td><td>10.5</td></tr><tr><td>10</td><td>11.0</td></tr><tr><td>12</td><td>11.5</td></tr><tr><td>14</td><td>12.0</td></tr><tr><td>16</td><td>12.5</td></tr><tr><td>18</td><td>13.0</td></tr><tr><td>20</td><td>14.0</td></tr></tbody></table>	Maximum Peak Pulse Current (A)	Clamping Voltage (V)	0	8.5	2	9.0	4	9.5	6	10.0	8	10.5	10	11.0	12	11.5	14	12.0	16	12.5	18	13.0	20	14.0	<table border="1"><caption>Approximate data for TS0801LBX</caption><thead><tr><th>Maximum Peak Pulse Current (A)</th><th>Clamping Voltage (V)</th></tr></thead><tbody><tr><td>0</td><td>12</td></tr><tr><td>2</td><td>13</td></tr><tr><td>4</td><td>14</td></tr><tr><td>6</td><td>15</td></tr><tr><td>8</td><td>16</td></tr><tr><td>10</td><td>17</td></tr><tr><td>12</td><td>18</td></tr><tr><td>14</td><td>19</td></tr><tr><td>16</td><td>20</td></tr><tr><td>18</td><td>20</td></tr><tr><td>20</td><td>20</td></tr></tbody></table>	Maximum Peak Pulse Current (A)	Clamping Voltage (V)	0	12	2	13	4	14	6	15	8	16	10	17	12	18	14	19	16	20	18	20	20	20	<table border="1"><caption>Approximate data for TS1201LBX</caption><thead><tr><th>Maximum Peak Pulse Current (A)</th><th>Clamping Voltage (V)</th></tr></thead><tbody><tr><td>0</td><td>16</td></tr><tr><td>2</td><td>17</td></tr><tr><td>4</td><td>18</td></tr><tr><td>6</td><td>19</td></tr><tr><td>8</td><td>20</td></tr><tr><td>10</td><td>21</td></tr><tr><td>12</td><td>22</td></tr><tr><td>14</td><td>24</td></tr></tbody></table>	Maximum Peak Pulse Current (A)	Clamping Voltage (V)	0	16	2	17	4	18	6	19	8	20	10	21	12	22	14	24
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<table border="1"><caption>Approximate data for TS3601LBX</caption><thead><tr><th>Maximum Peak Pulse Current (A)</th><th>Clamping Voltage (V)</th></tr></thead><tbody><tr><td>1</td><td>50</td></tr><tr><td>2</td><td>55</td></tr><tr><td>3</td><td>58</td></tr><tr><td>4</td><td>62</td></tr><tr><td>5</td><td>65</td></tr></tbody></table>	Maximum Peak Pulse Current (A)	Clamping Voltage (V)	1	50	2	55	3	58	4	62	5	65																																																								
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## Package Outline Dimensions

- DFN1.0\*0.6-2L Package
- MSL-1

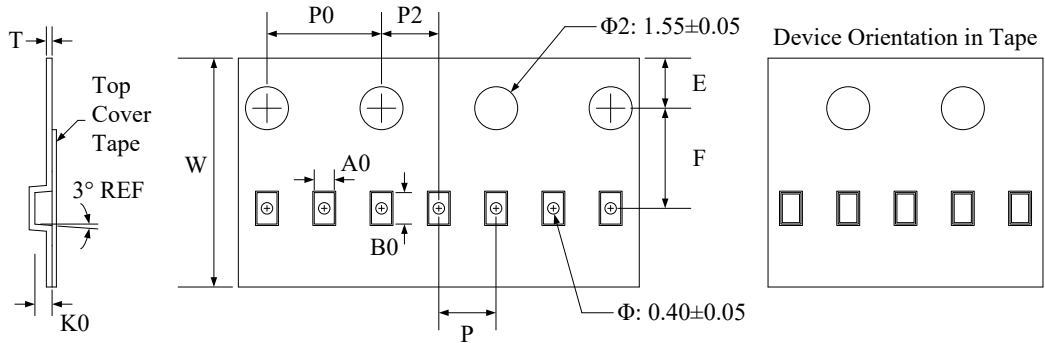


Package Dimensions (Controlling dimensions are in millimeters)

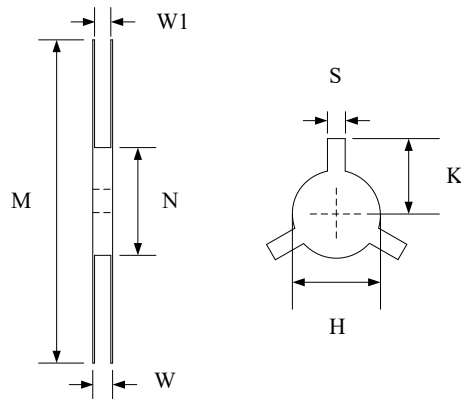
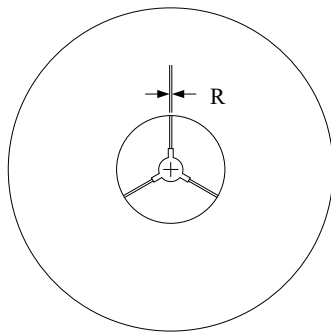
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Minimum	Maximum	Minimum	Maximum
A	0.400	0.550	0.016	0.022
A1	0.000	0.050	0.000	0.002
A3	0.125 REF		0.005 REF	
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
b	0.200	0.300	0.008	0.012
e	0.650 BSC		0.026 BSC	
L	0.450	0.550	0.018	0.022



Tape and Reel Specification



Symbol	W	A0	B0	K0	E	F	P	P0	P2	T
Dimensions (mm)	8.00±0.1	0.7±0.05	1.15±0.05	0.55±0.05	1.75±0.1	3.5±0.05	2.0±0.1	4.0±0.1	2.0±0.05	0.2±0.05



Symbol	Reel Size	M	N	W	W1	H	S	K	R
Dimensions (mm)	Φ178	178.0±1.0	60.0±1.0	11.5±0.5	9.0±0.5	13.0±0.5	2.0±0.1	11.0±0.2	1.0±0.05

Ordering Information

Part Number	Qty per Reel	Reel Size
TSxx01LBX	10,000	7 inch

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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)