

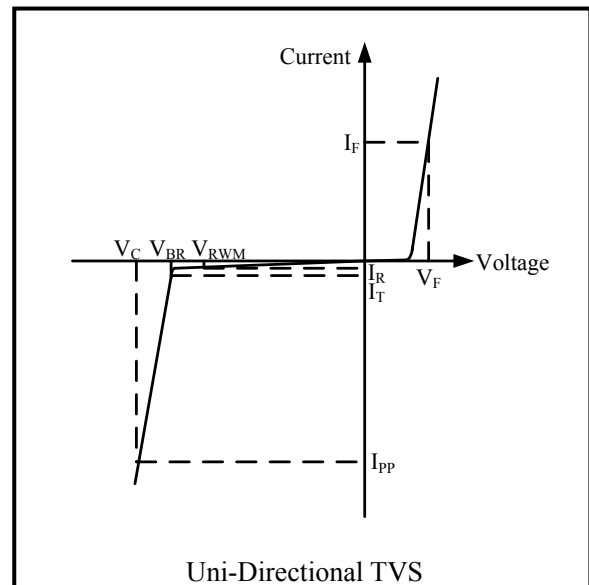


### Absolute Maximum Rating

Symbol	Parameter	Value	Units
$V_{ESD}$	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$\pm 30$ $\pm 30$	kV
$I_{PP}$	Peak Pulse Current(8/20us)	100	A
$T_{OPT}$	Operating Temperature	-55/+150	°C
$T_{STG}$	Storage Temperature	-55/+150	°C
$T_L$	Lead Soldering Temperature	260 (10 sec.)	°C

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

Symbol	Parameter
$V_{RWM}$	Nominal Reverse Working Voltage
$I_R$	Reverse Leakage Current @ $V_{RWM}$
$V_{t1}$	Trigger Voltage
$I_{t1}$	Trigger Current @ $V_{t1}$
$V_h$	Holding Voltage
$I_h$	Holding Current @ $V_h$
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{CR}$	Reverse Clamping Voltage @ $I_{PP}$
$I_{PP}$	Maximum Peak Pulse Current
$C_{ESD}$	Parasitic Capacitance



Symbol	Test Condition	Minimum	Typical	Maximum	Units
$V_{RWM}$				7.0	V
$I_R$	$V_{RWM} = 7.0V, T = 25^\circ C$		0.01	0.1	$\mu A$
$V_{BR}$	$I_T = 1mA$	7.5	8.2	10.0	V
$V_F$	$I_T = 1mA$			1.2	V
$V_C$	$I_{PP} = 1A, t_p = 8/20\mu s$			10.0	V
$V_C$	$I_{PP} = 50A, t_p = 8/20\mu s$			15.0	V
$V_C$	$I_{PP} = 100A, t_p = 8/20\mu s$			20.0	V
$C_{ESD}$	$V_R = 0V, f = 1MHz$		760		pF

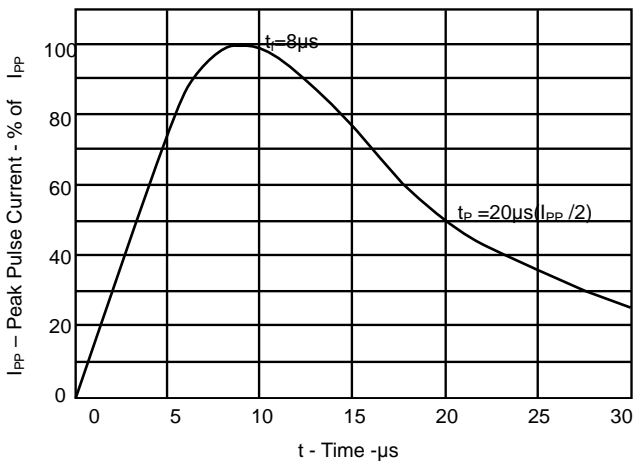
**Typical Characteristics**


Fig 1. Pulse Waveform

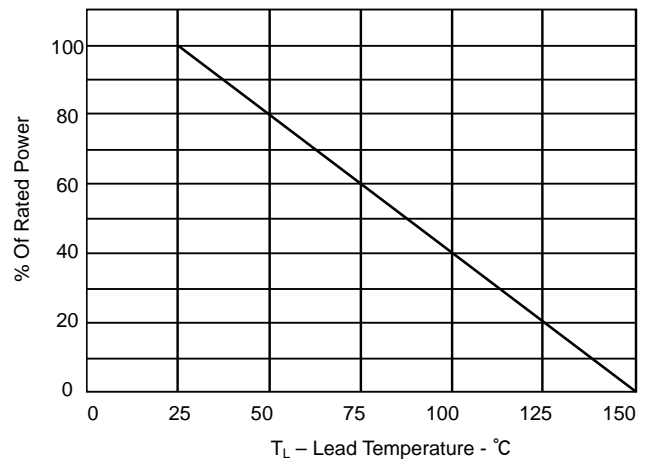


Fig 2. Power Derating Curve

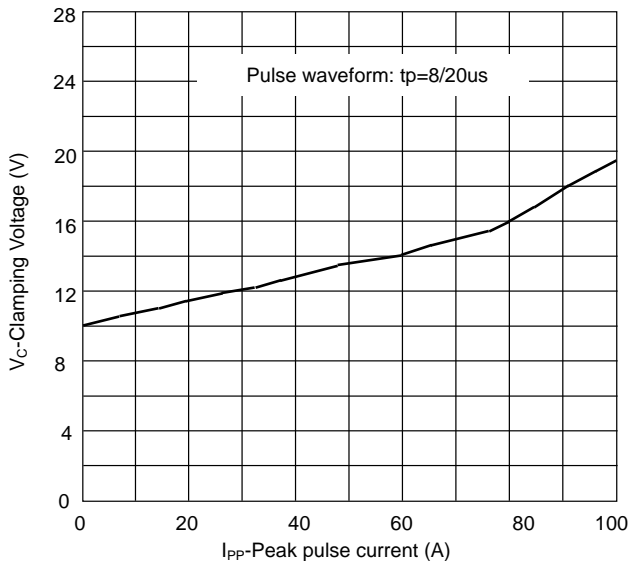


Fig 3. Clamping voltage vs. Peak pulse current

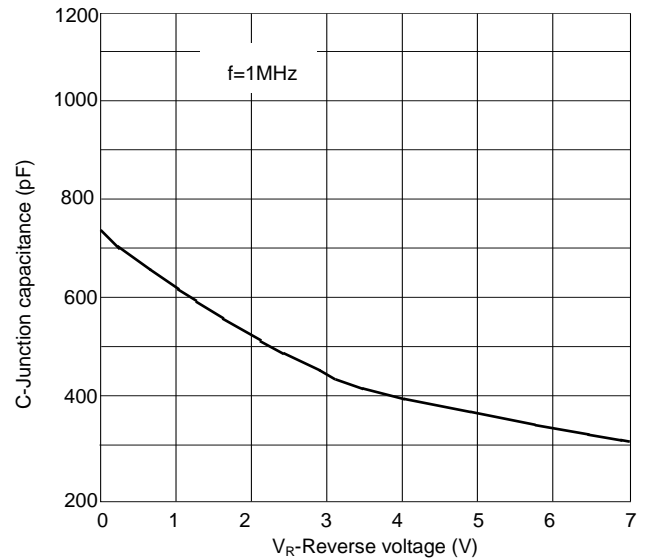
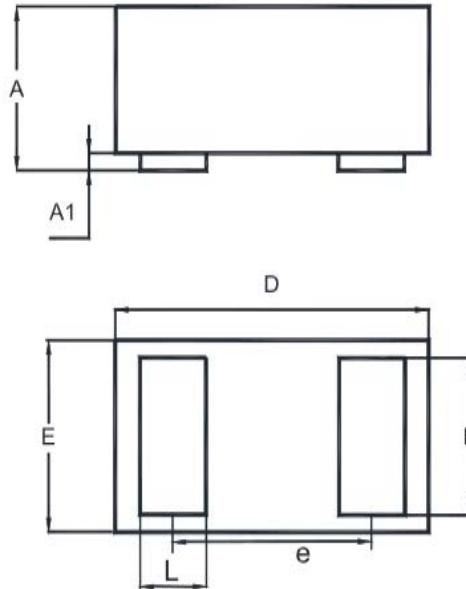


Fig 4. Capacitance vs. Reverse voltage

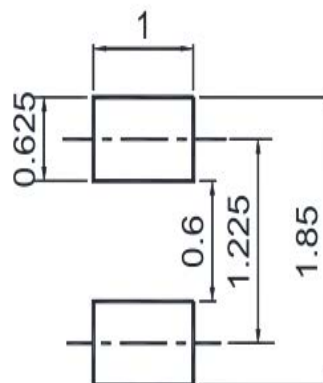
## Package Outline Demensions

□ DFN1610-2L Package

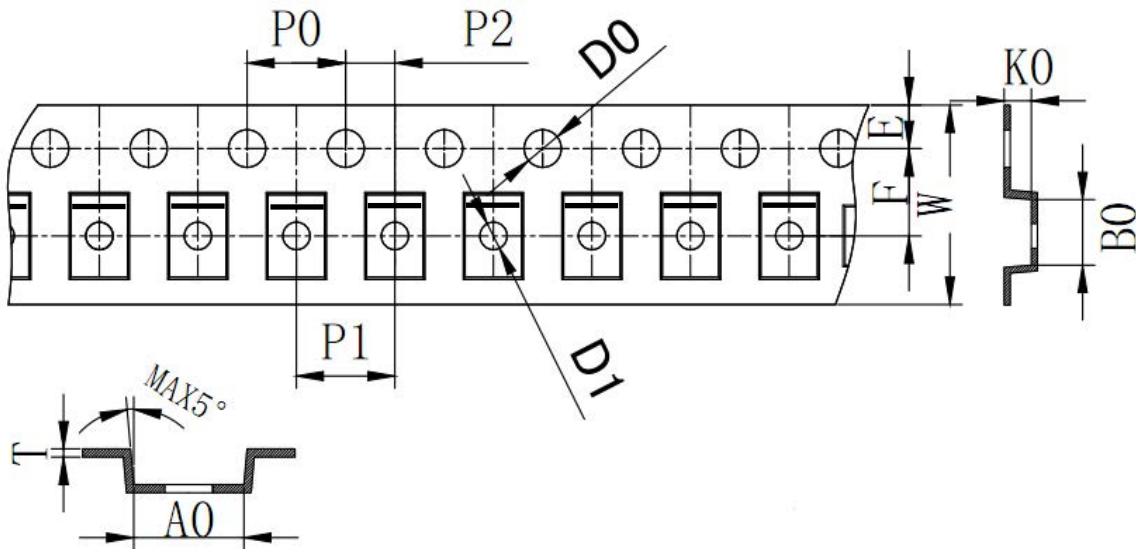


UNIT	A	A1	b	D	E	e	L
mm	0.55	0.05	0.95	1.65	1.05	1.1	0.45
	0.45	0	0.85	1.55	0.95		0.35

### Recommended Soldering Footprint

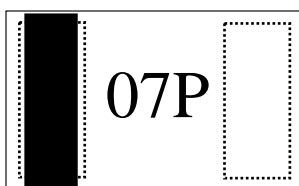


### Tape and Reel Specification



SYMBOL	A0	B0	K0	P0	P1	P2
SPEC	1.15±0.05	1.80±0.05	0.63±0.05	4.00±0.10	2.00±0.10	2.00±0.05
SYMBOL	T	E	F	D0	D1	W
SPEC	0.20±0.05	1.75±0.10	3.50±0.05	1.55±0.05	0.60 <sup>+0.10</sup> <sub>-0</sub>	8.00 <sup>+0.30</sup> <sub>-0.10</sub>

### Marking Codes



Note:

(1) "07P" is part number, fixed

### Ordering Information

Part Number	Working Voltage	Quantity Per Reel	Reel Size
TS0751LDX	7.0V	3,000	7 Inch

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