

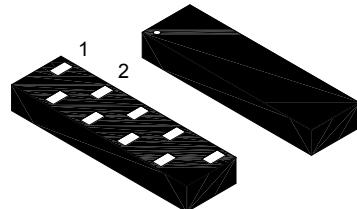
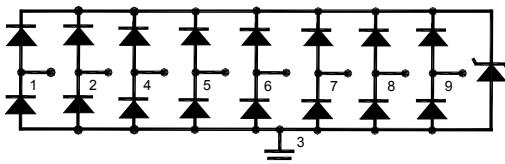
ESDLC3328MP

Transient Voltage Suppressors

for ESD Protection

Features

- Protects eight high-speed lines
- Low ESD clamping voltage



Marking Code:3328MP
DFN3810-9 Plastic package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---|-----------|----------------------|------|
| Peak Pulse Current ($t_p = 8/20 \mu\text{s}$) | I_{PP} | 5 | A |
| IEC61000-4-2 (ESD) Air Contact | V_{PP} | ± 30 ± 25 | kV |
| Peak Pulse Power ($t_p = 8/20 \mu\text{s}$) | P_{PK} | 75 | W |
| Operation Temperature Range | T_j | - 55 to + 125 | °C |
| Storage Temperature Range | T_{stg} | - 55 to + 150 | °C |

Characteristics at $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|-----------|------|--------------|-------------|---------------|
| Reverse Stand-Off Voltage, Any I/O to GND | V_{RWM} | - | - | 3.3 | V |
| Punch-Through Voltage at $I_{PT} = 2 \mu\text{A}$, Any I/O to GND | V_{PT} | 3.8 | - | 5.5 | V |
| Reverse Current at $V_{RWM} = 3.3 \text{ V}$, Any I/O to GND | I_R | - | - | 0.1 | μA |
| Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$, Any I/O to GND at $I_{PP} = 5 \text{ A}$, $t_p = 8/20 \mu\text{s}$, Any I/O to GND | V_C | - | - | 9 12 | V |
| ESD Clamping Voltage at $I_{PP} = 16 \text{ A}$, $t_{lp} = 0.2/100 \text{ ns}$ at $I_{PP} = -16 \text{ A}$, $t_{lp} = 0.2/100 \text{ ns}$ | V_C | - | 11.8 11.7 | - | V |
| Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Any I/O to GND at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Between I/O pins | C_J | - | - | 0.65 0.4 | pF |

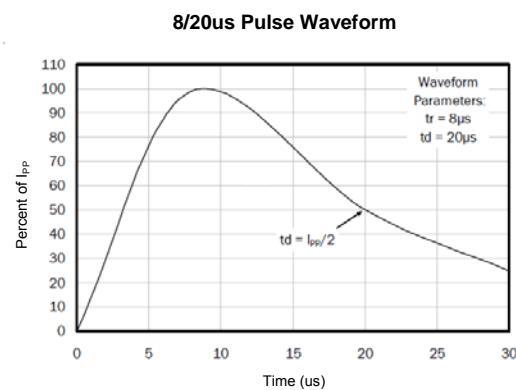
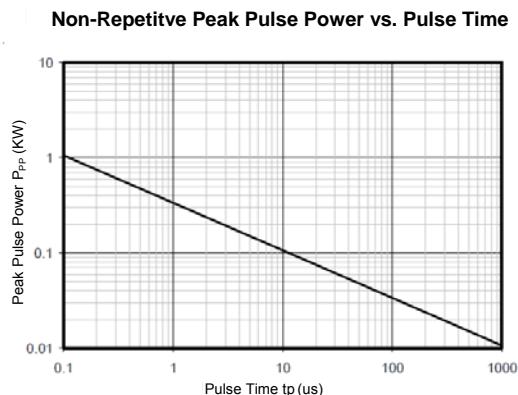
TOP DYNAMIC



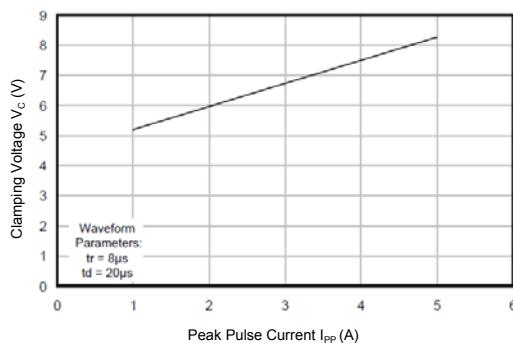
ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
Certificate No. 1215007 Certificate No. 50114012 Certificate No. 05150006 Certificate No. ECOH 0007 HU02

Dated: 16/08/2016 Rev: 03

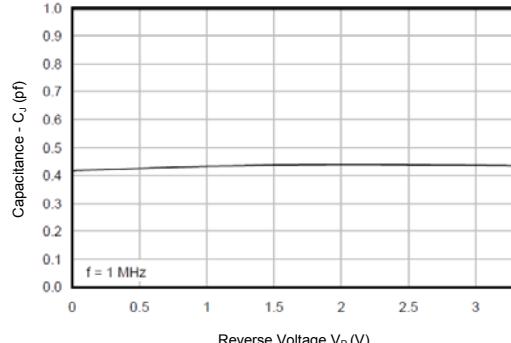
ESDLC3328MP



Clamping Voltage vs. Peak Pulse Current (Between any I/O and Ground)



Junction Capacitance vs. Reverse Voltage (Between any I/O and Ground)



TOP DYNAMIC



Intertek
ISO 14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
Certificate No. 121505007 Certificate No. 50114012 Certificate No. 05131506006
Certificate No. IECQ-HQ-00014/02

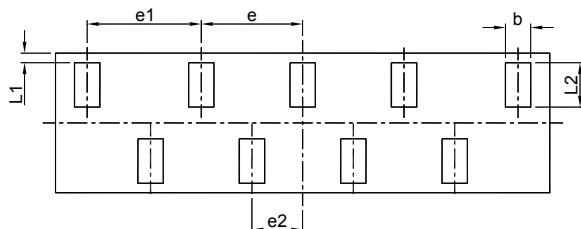
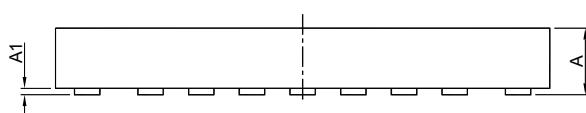
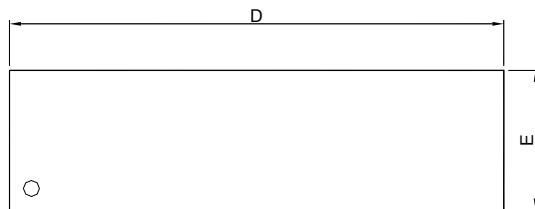
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ESDLC3328MP

PACKAGE OUTLINE

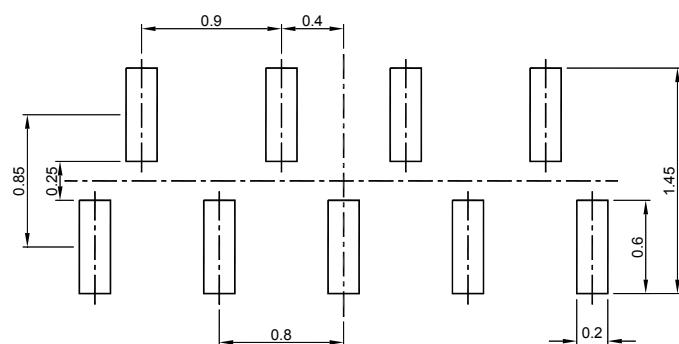
Plastic surface mounted package; 2 leads

DFN3810-9



| UNIT | A | A1 | b | D | E | e | e1 | e2 | L1 | L2 |
|------|----------------|-----------|--------------|--------------|--------------|------|------|------|----------------|--------------|
| mm | 0.475 0.525 | 0 0.05 | 0.15 0.25 | 3.70 3.90 | 0.90 1.10 | 0.80 | 0.90 | 0.40 | 0.025 0.075 | 0.25 0.35 |

Recommended Soldering Footprint



Packing information

| Package | Tape Width (mm) | Pitch | | Reel Size | | Per Reel Packing Quantity |
|-----------|--------------------|---------|---------------|-----------|------|---------------------------|
| | | mm | inch | mm | inch | |
| DFN3810-9 | 8 | 4 ± 0.1 | 0.157 ± 0.004 | 178 | 7 | 5,000 |

TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 Certificate No. 051505007 Certificate No. 05114012 Certificate No. 051508008 Certificate No. EC21100014/02

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