Product data sheet

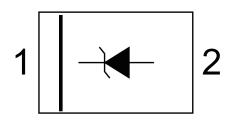
1. General description

The ESDHDxxUF are designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time. The ESDHDxxUF are suited for use in cellular phones, portable device, digital cameras, power supplies and many other portable applications.



2. Features and benefits

- · ESD and surge protection for interface lines
- IEC 61000-4-2 (ESD) ±30kV(air), ±30kV(contact)
- Protects one directional I/O line
- Low clamping voltage
- Low leakage current
- Meet MSL level1
- · Halogen free and RoHS compliant



3. Applications

- Cell Phone Handsets and Accessories
- · Microprocessor based equipment
- Personal Digital Assistants
- Notebooks / Desktops / Servers
- Portable Instrumentation
- Peripherals





4. Ordering information

Type number	Package name	Orderable part number	Packing method	Small packing quantity	Package version	Package issue date
ESDHDxxUF	DFN1006	ESDHDxxUFX	Tape and reel	10000	DFN1006Q	13-Oct-2020
ESDHD03UF	DFN1006	ESDHD03UFX	Tape and reel	10000	DFN1006Q	13-Oct-2020

5. Absolute maximum ratings

In accordance with the Absolute Maximum Rating System (IEC 60134).

 $T_i = 25$ °C unless otherwise specified.

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Symbol	Parameter	Conditions	Values	Unit	
Absolute maximum rating					
V_{ESD}	ESD per IEC 61000-4-2 (air) ESD per IEC 61000-4-2 (contact)		±30 ±30	kV kV	
T _{stg}	storage temperature range		-55 to 150	°C	
T _j	operating temperature range		-55 to 150	°C	

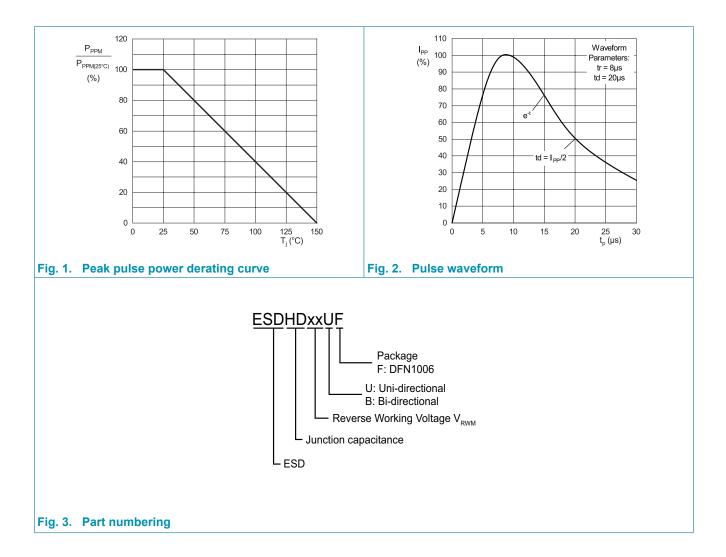
ESD Protection Diodes

6. Characteristics

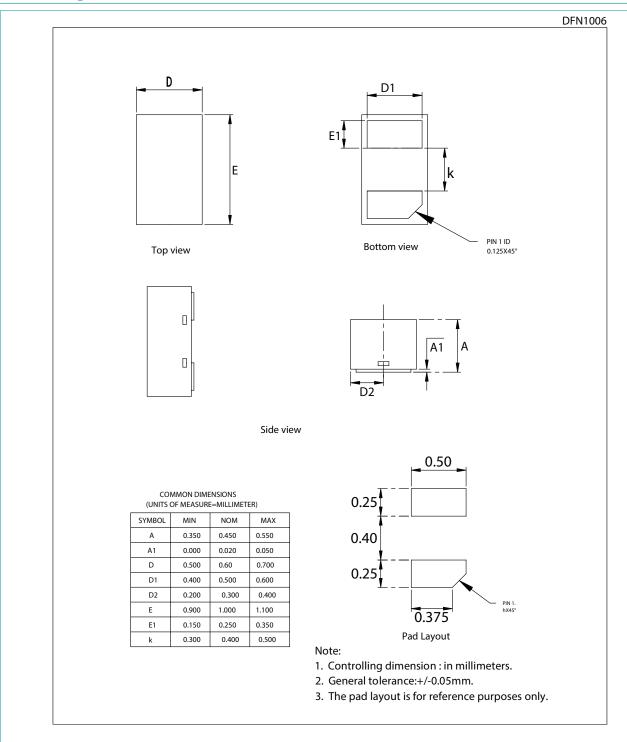
 T_i = 25 °C unless otherwise specified.

Product type	Reverse Stand off Voltage V _R (V)	Min. Breakdown Voltage V _{BR} @ I _T = 1 mA (V)	Max. Clamping Voltage V _c @ I _{pp} = 1 A (V)	Max. Clamping Voltage V _c @ Max I _{pp} (V)	Max. Peak Pulse current I _{pp} @ 8/20 μs (A)	Maximum Reverse Leakage I _R @ V _R (μΑ)	Typ. C _j (pF) @ 0 V, 1 MHz
ESDHD03UF	3.3	4	8	12	24	1	200
ESDHD12UF	12	13.3	18	26	8	1	80
ESDHD15UF	15	16.4	25	35	7	1	50
ESDHD24UF	24	26	40	48	5	1	40
ESDHD36UF	36	38	52	70	5	1	40

ESD Protection Diodes



7. Package outline



ESD Protection Diodes

8. Legal information

Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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