

# SMD ESD Protection Diode



SMD Diodes Specialist

## CPDF Series (RoHS Device)



### Features

(16kV) IEC 61000-4-2 rating.

Surface mount package.

High component density.

### Mechanical data

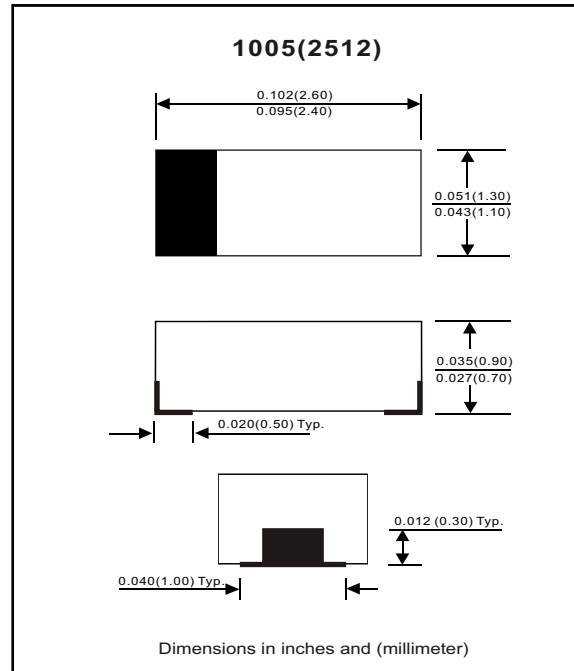
Case: 1005 (2512) Standard package ,  
molded plastic.

Terminals: Gold plated, solderable per  
MIL-STD-750, method 2026.

Marking Code: PGD

Mounting position: Any.

Weight: 0.006 gram (approx.).



### Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Diode breakdown voltage	CPDF5V0 CPDF12V CPDF24V CPDF36V I <sub>F</sub> = 1mA	V <sub>BD</sub>	5.1 14 25 38	7.0 17 28 40		V
Leakage current	CPDF5V0 CPDF12V CPDF24V CPDF36V 5V 12V 24V 36V	I <sub>L</sub>		±0.1	±2.0	µA
Capacitance	CPDF5V0 CPDF12V CPDF24V CPDF36V @ 1MHz	C <sub>T</sub>		15 12 10 5	20 --- --- ---	pF
Channel clamp voltage	CPDF5V0 CPDF12V CPDF24V CPDF36V 8kV event	V <sub>ESD</sub>			± 7.0 ± 17 ± 25 ± 40	V
Peak ESD voltage capability	CPDF5V0 CPDF12V CPDF24V CPDF36V IEC 61000-4-2	V <sub>PV</sub>			16	kV
Peak pulse current	CPDF5V0 CPDF12V CPDF24V CPDF36V 8 / 20 µs	I <sub>PP</sub> *			5.1 15 15 15	A
Package Power	CPDF5V0 CPDF12V CPDF24V CPDF36V	P			100	mW

\* one diode conducting.