

SMD ESD Protection Diode



SMD Diodes Specialist

CPDU Series (RoHS Device)

Features

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

Surface mount package.

High component density.



Mechanical data

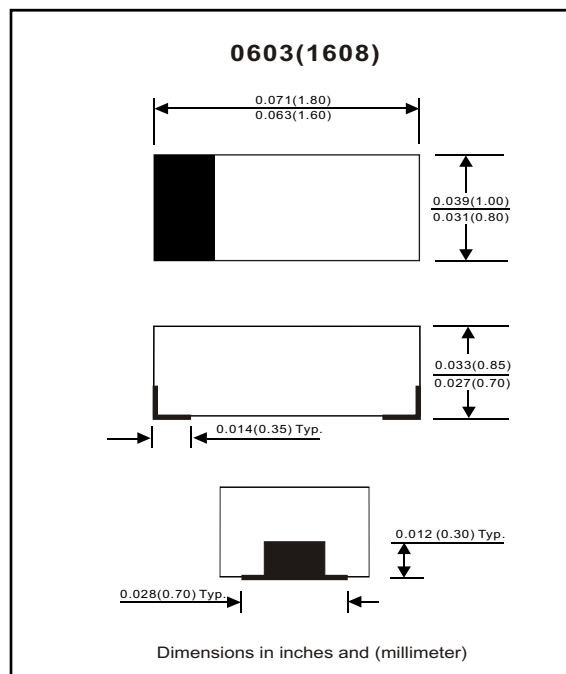
Case: 0603 (1608) Standard package ,
molded plastic.

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

Marking Code: PGD

Mounting position: Any.

Weight: 0.003 gram (approx.).



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

Parameter		Conditions	Symbol	Min	Typ	Max	Unit
Diode breakdown voltage	CPDU5V0	I _F = 1mA	V _{BD}	5.1	7.0		V
	CPDU12V			14	17		
	CPDU24V			25	28		
	CPDU36V			38	40		
Leakage current	CPDU5V0	5V 12V 24V 36V	I _L		±0.1	±2.0	uA
	CPDU12V						
	CPDU24V						
	CPDU36V						
Capacitance	CPDU5V0	@ 1MHz	C _T		15	20	pF
	CPDU12V				12	---	
	CPDU24V				10	---	
	CPDU36V				5	---	
Channel clamp voltage	CPDU5V0	8kV event	V _{ESD}			± 7.0	V
	CPDU12V					± 17	
	CPDU24V					± 25	
	CPDU36V					± 40	
Peak ESD voltage capability	CPDU5V0	IEC 61000-4-2	V _{PV}			16	kV
	CPDU12V						
	CPDU24V						
	CPDU36V						
Peak pulse current	CPDU5V0	8 / 20 us	I _{PP} *			5.1	A
	CPDU12V					15	
	CPDU24V					15	
	CPDU36V					15	
Package Power	CPDU5V0		P			100	mW
	CPDU12V						
	CPDU24V						
	CPDU36V						

* one diode conducting .

REV:A