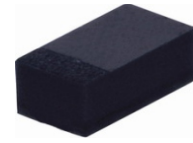


## CPDUR Series(RoHs Device)



### Features

- (16kV) IEC 61000-4-2 rating.
- Surface mount package.
- High component density.

### Mechanical data

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

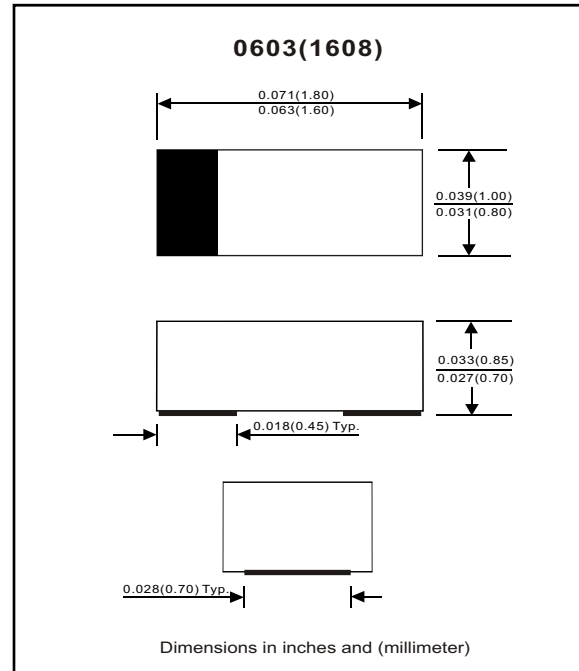
Terminals: Gold plated, solderable per MIL-STD-750, method 2026.

Marking Code:

CPDUR5V0: E05  
 CPDUR12V: E12  
 CPDUR24V: E24  
 CPDUR36V: E36

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	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V IF = 1mA	V <sub>BD</sub>	5.1 14 25 38	7.0 17 28 40		V
Leakage current	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V 5V 12V 24V 36V	I <sub>L</sub>		±0.1	±2.0	µA
Capacitance	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V @ 1MHz	C <sub>T</sub>		15 12 10 5	20 --- --- ---	pF
Channel clamp voltage	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V 8kV event	V <sub>ESD</sub>			± 7.0 ± 17 ± 25 ± 40	V
Peak ESD voltage capability	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V IEC 61000-4-2	V <sub>PV</sub>			16	kV
Peak pulse current	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V 8 / 20 us	I <sub>PP</sub> *			5.1 15 15 15	A
Package Power	CPDUR5V0 CPDUR12V CPDUR24V CPDUR36V	P			100	mW

\* one diode conducting.