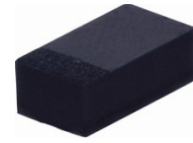




THE DATASHEET OF CPDUR12V



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.

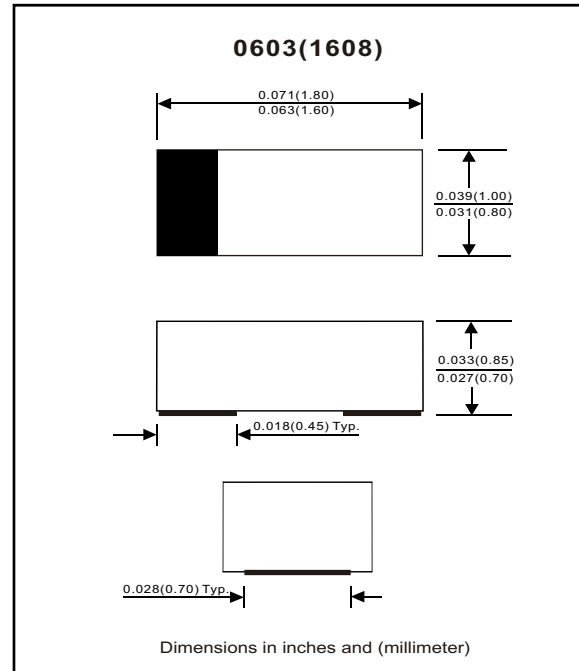
Terminals: Gold plated, solderable per MIL-STD-750, method 2026.

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

* one diode conducting.

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