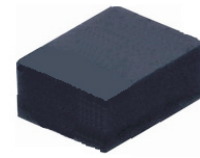


CPDTR0312V-HF (RoHS Device)

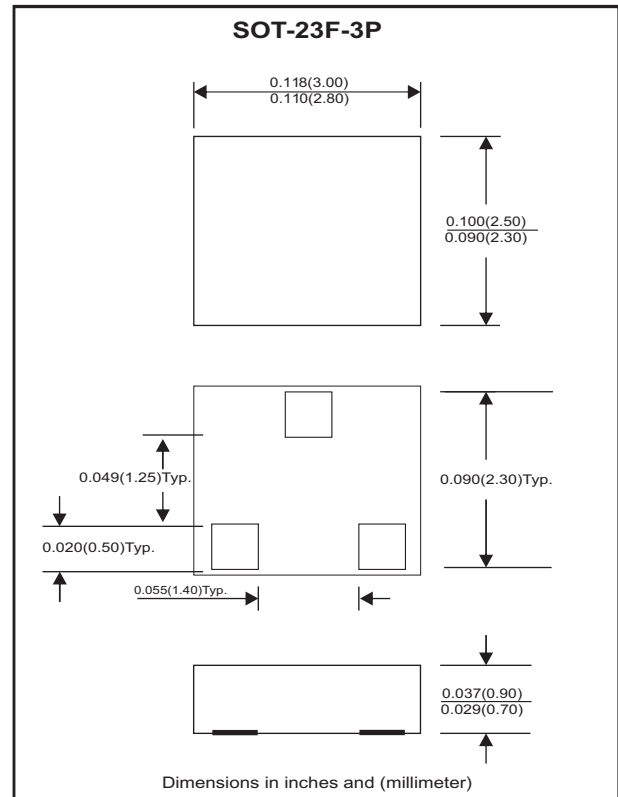
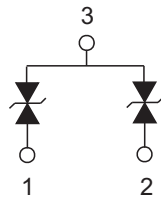


Features

Halogen free.
Bi-directional ESD protection.
(16kV) IEC 61000-4-2 rating.
Surface mount package.
High component density.

Mechanical data

Case: SOT-23F-3P standard package,
molded plastic.
Terminals: Gold plated, solderable per
MIL-STD-750,method 2026.
Marking Code: E12
Mounting position: Any.
Weight: 0.012 gram(approx.).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Diode breakdown voltage	I _R = 1mA	V _{BD}	13	17		V
Leakage current	V _R = 12V	I _L		0.1	2.0	uA
Junction capacitance	V _R = 0V, f = 1MHz	C _T		12		pF
ESD capability	IEC 61000-4-2(air) IEC 61000-4-2(contact)	ESD			16 8	kV
Clamping voltage	I _{PP} = 1A, T _P =8/20us	V _C			25	V
Peak pulse power	T _P =8/20us	P _{PP}			25	W
Operation temperature		T _J			125	°C
Storage temperature		T _{STG}	-55		150	°C

RATING AND CHARACTERISTIC CURVES (CPDTR0312V-HF)

Fig. 1 - 8/20us Peak pulse current wave form acc. IEC 61000-4-5

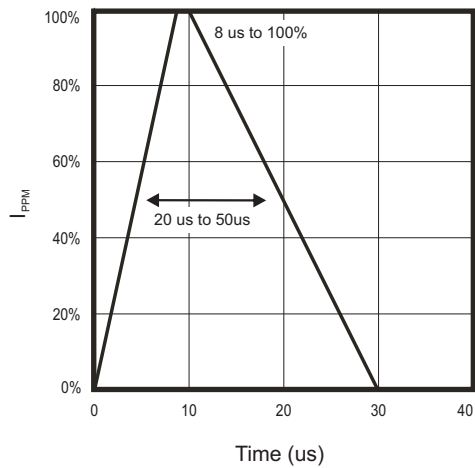


Fig. 2 - Reverse characteristics

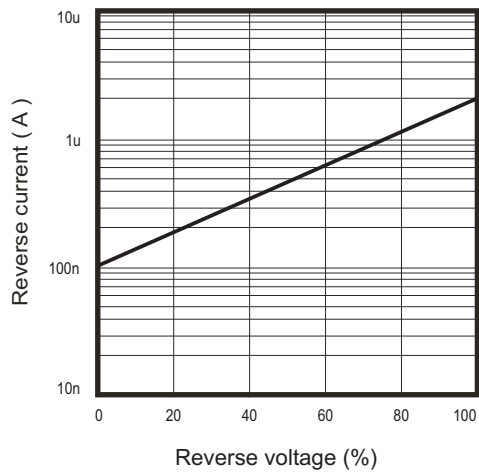


Fig. 3 - Capacitance between terminals characteristics

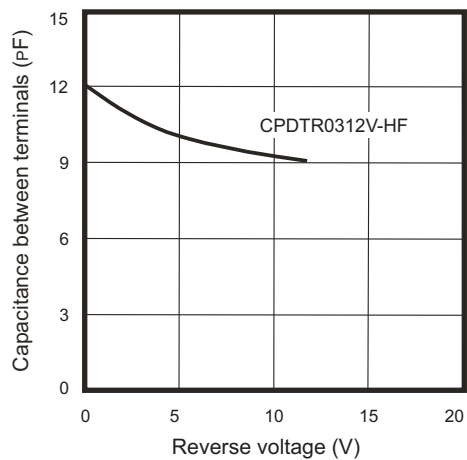
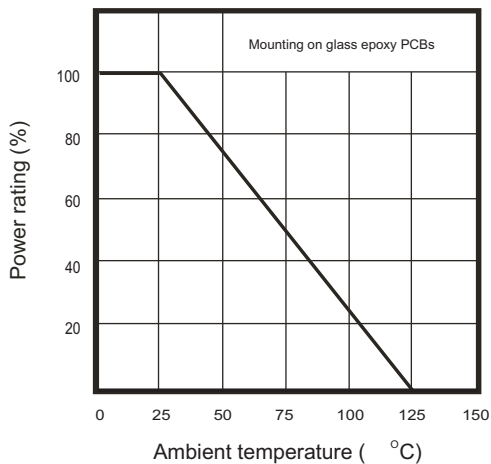


Fig. 4 - Power rating derating curve



REV:A
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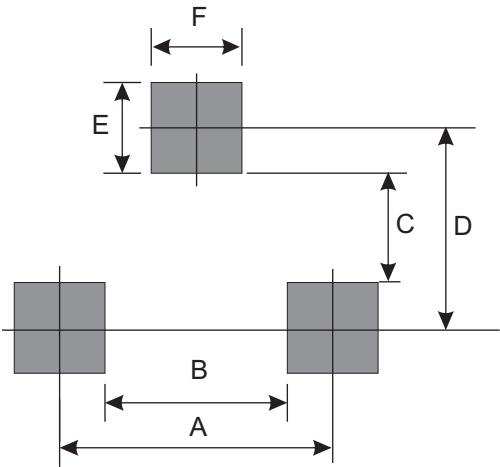
Marking Code

Part Number	Marking Code
CPDTR0312V-HF	E12



Suggested PAD Layout

SIZE	CPDTR0312V-HF	
	(mm)	(inch)
A	1.90	0.075
B	1.10	0.043
C	0.90	0.035
D	1.70	0.067
E	0.80	0.031
F	0.80	0.031



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
CPDTR0312V-HF	3000	7