

ACPDQC5V0CSP-IPHF

RoHS Device
Halogen Free



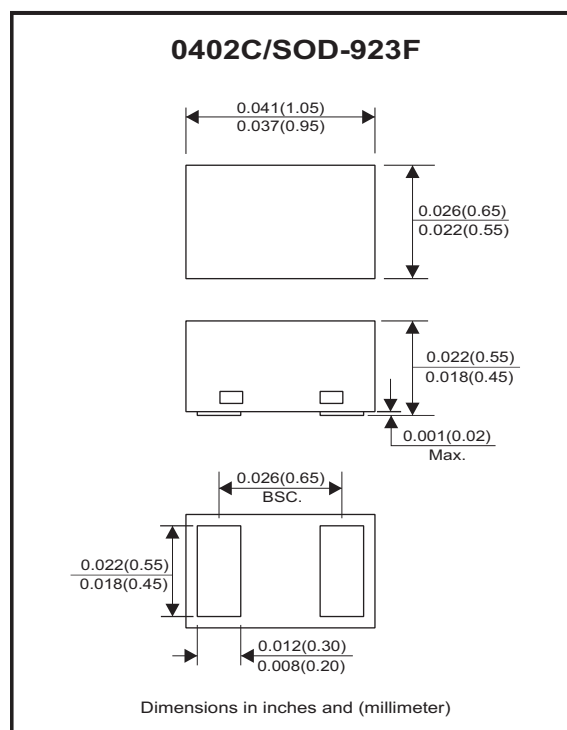
Features

- IEC61000-4-2 (ESD) $\pm 10\text{kV}$
- Working voltage: 5V
- Typical capacitance: 0.15pF
- Comply with AEC-Q101

Mechanical data

- Case: 0402C/SOD-923F small outline plastic package. molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026
- Mounting position: Any.
- High temperature soldering guaranteed: 260°C/10 second.
- Weight: 0.001 grams(approx.).

Circuit diagram



Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power ($t_p = 8/20\mu\text{s}$ waveform)	PPP	38	W
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	V_{ESD}	± 10	kV
Operating temperature rang	T_J	-55 to +150	$^\circ\text{C}$
Storage temperature rang	T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse stand-off voltage		V_{RWM}	-	-	5	V
Reverse leakage current	$V_R = 5\text{ V}$	I_R	-	-	100	nA
Reverse breakdown voltage	$I_R = 1\text{ mA}$	$V(\text{BR})$	7	-	10	V
Clamping voltage	$I_{\text{PP}} = 1\text{ A}$	V_C	-	-	15	V
	$I_{\text{PP}} = 2\text{ A}$	V_C	-	-	19	V
Junction capacitance	$V_R = 0\text{ V}$, $F = 1\text{ MHz}$	C_J	-	0.15	0.25	pF

RATING AND CHARACTERISTIC CURVES (ACPDQC5V0CSP-IPHF)

Fig.1 - 8/20us Peak Pulse Current Wave
Form Acc. IEC 61000-4-5

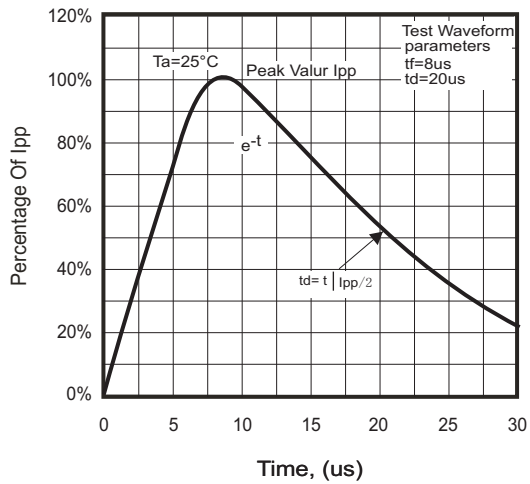


Fig.2 - Power Rating Derating Curve

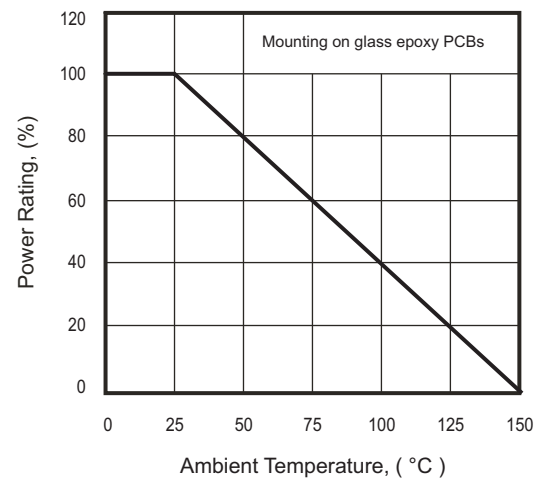


Fig.3 - Typical Clamping Voltage
Vs. Peak Pulse Current

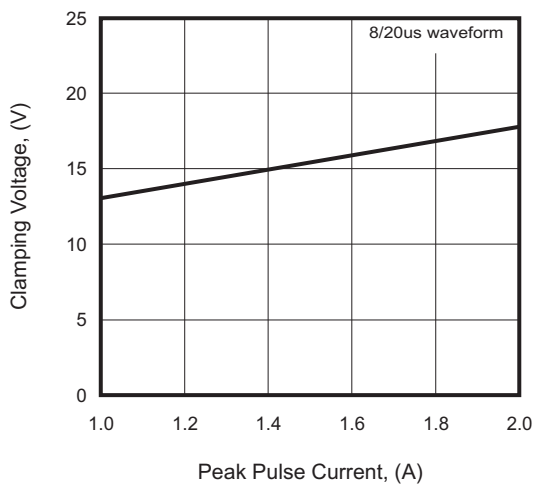
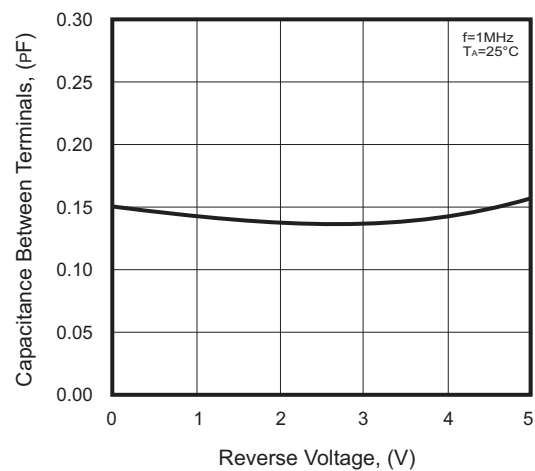
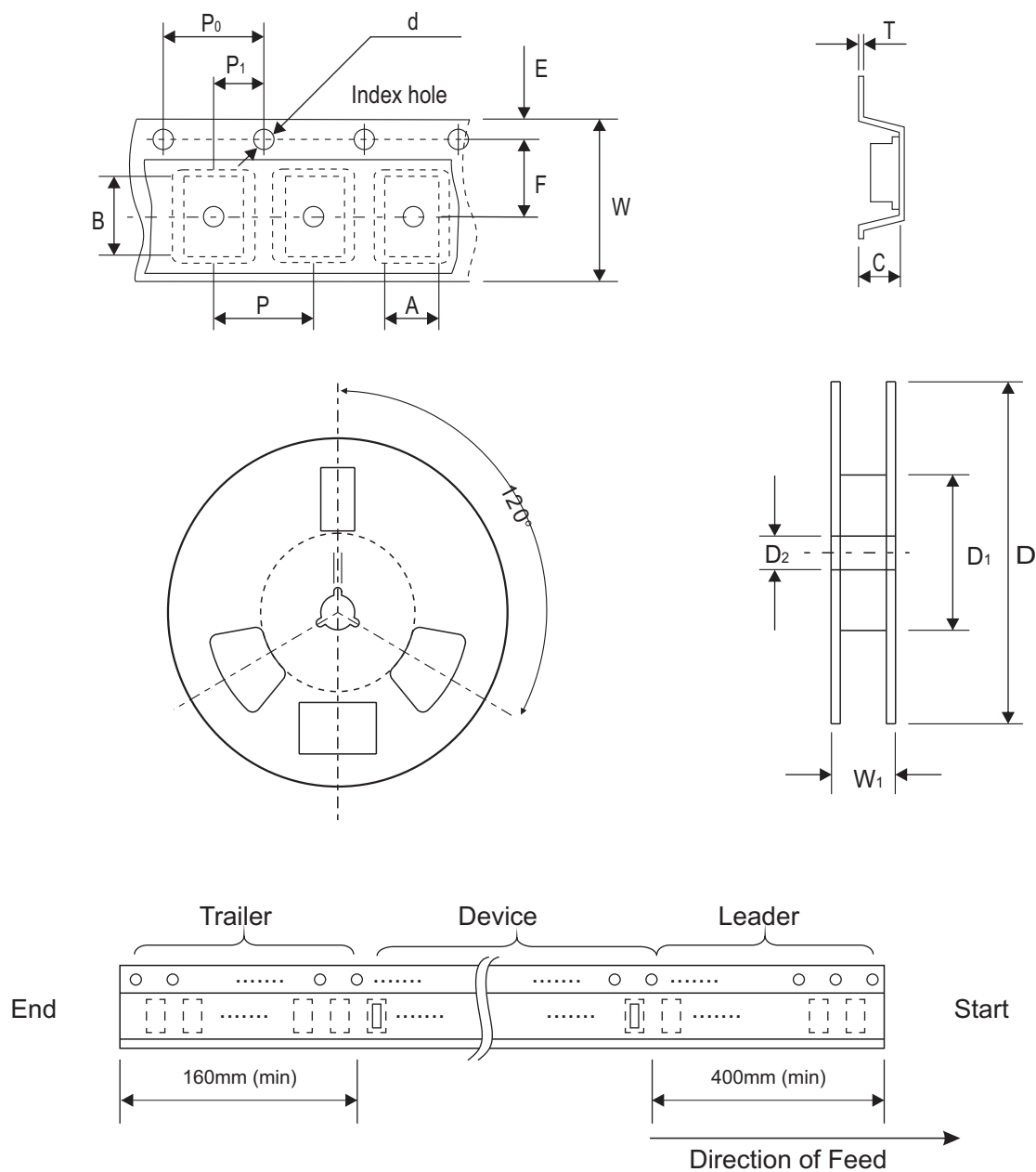


Fig.4 - Typical Capacitance Between
Terminals Characteristics



Reel Taping Specification



	SYMBOL	A	B	C	d	D	D ₁	D ₂
0402C (SOD-923F)								
	(mm)	0.75 ± 0.05	1.17 ± 0.05	0.65 ± 0.05	$1.50 + 0.10 - 0$	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.030 ± 0.002	0.046 ± 0.002	0.026 ± 0.002	$0.059 + 0.004 - 0$	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
0402C (SOD-923F)									
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	$0.20 + 0.02 - 0.05$	8.00 ± 0.20	$12.00 + 0.50 - 0$
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	$0.008 + 0.001 - 0.002$	0.315 ± 0.008	$0.472 + 0.020 - 0$

Company reserves the right to improve product design , functions and reliability without notice.

REV:A

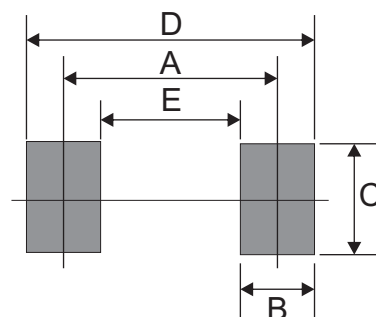
Marking Code

Part Number	Marking Code
ACPDQC5V0CSP-IPHF	5S

5S

Suggested PAD Layout

SIZE	0402C/SOD-923F	
	(mm)	(inch)
A	0.70	0.028
B	0.40	0.016
C	0.60	0.024
D	1.10	0.043
E	0.30	0.012



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0402C/SOD-923F	5,000	7

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