

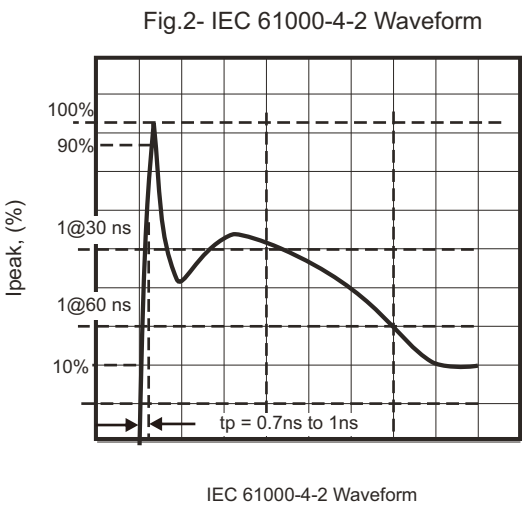
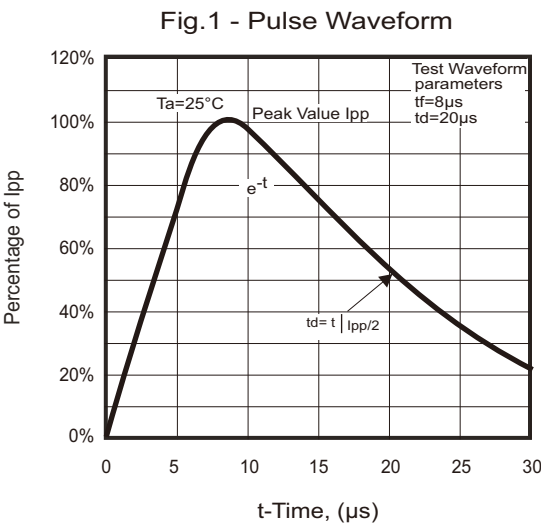
Electrical Characteristics

(at TA=25°C unless otherwise noted. VF=1.0V Max.@ IF=10mA for all types)

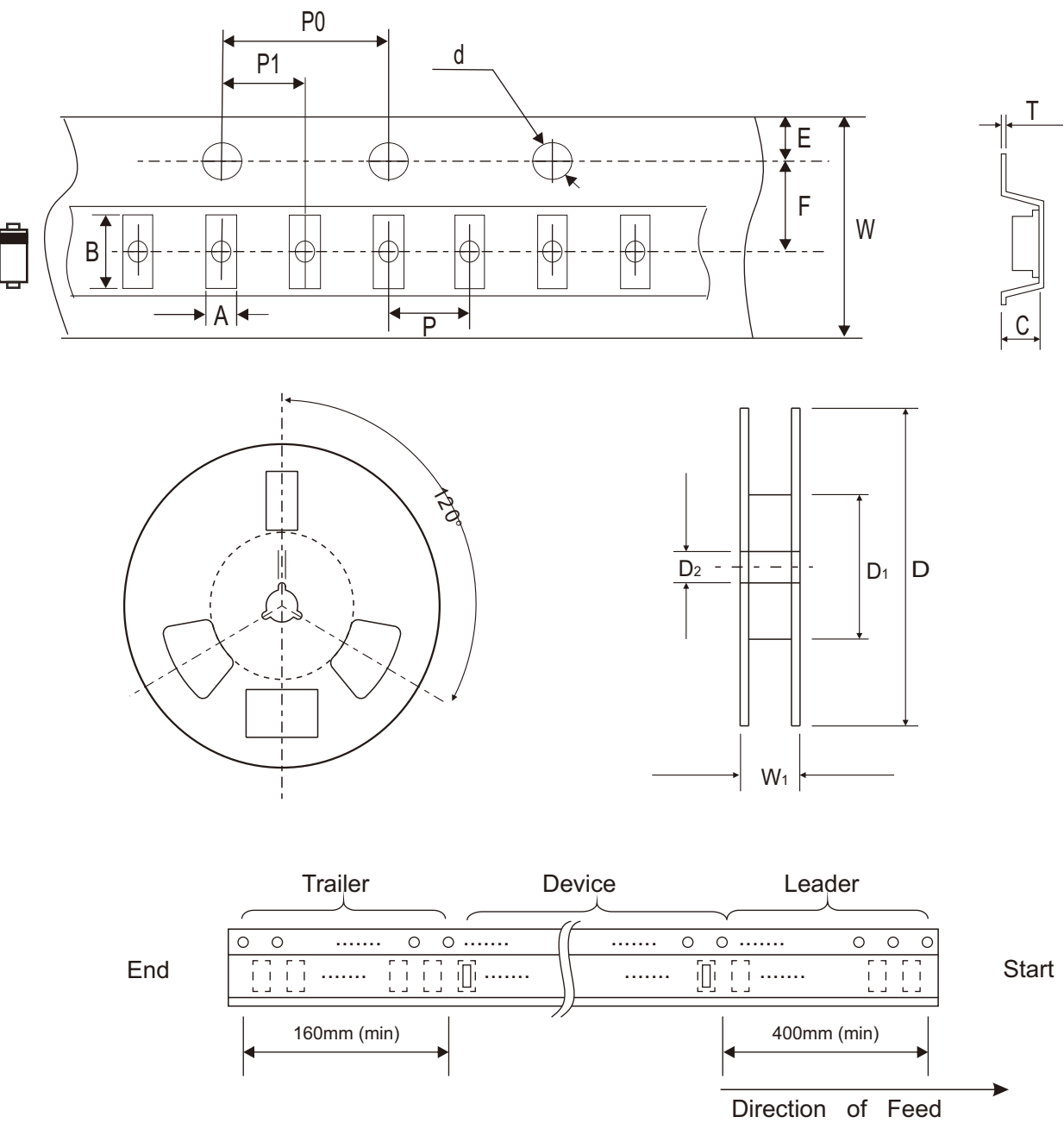
Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Working peak reverse voltage		V_{RWM}			5.0	V
Forward voltage	$I_F = 10mA$	V_F			0.9	V
Breakdown voltage	$I_T = 1mA$	V_{BR}	5.4			V
Reverse leakage current	$V_{RWM} = 5V$	I_R			1.0	μA
Clamping voltage	$I_{PP} = 1A, T_P = 8/20\mu s$	V_C			9.8	V
Junction capacitance	$V_R = 0V, f = 1MHz$	C_J		0.5	0.9	pF

- NOTES:
- 1. FR-5= 1.0*0.75*0.62 in.
 - 2. Surge current waveform per Figure 1.
 - 3. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

Rating and Characteristic Curves (CPDQ5V0USP-HF)



Reel Taping Specification



SOD-923F	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	0.70 ± 0.05	1.12 ± 0.05	0.48 ± 0.05	1.50 + 0.10 - 0	178.00 Max.	50.00 Min.	13.00 ± 0.50
	(inch)	0.028 ± 0.002	0.044 ± 0.002	0.019 ± 0.002	0.059 + 0.004 - 0	7.008 Max.	1.969 Min.	0.512 ± 0.020

SOD-923F	SYMBOL	E	F	P	P ₀	P ₁	T	W	W
	(mm)	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.05	4.00 ± 0.10	2.00 ± 0.05	0.229 ± 0.02	8.30 Max.	10.90 Max.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.079 ± 0.002	0.157 ± 0.004	0.079 ± 0.002	0.009 + 0.001	0.327 Max.	0.429 Max.

Marking Code

Part Number	Marking Code	
CPDQ5V0USP-HF	D	D ⌘



Month Code:

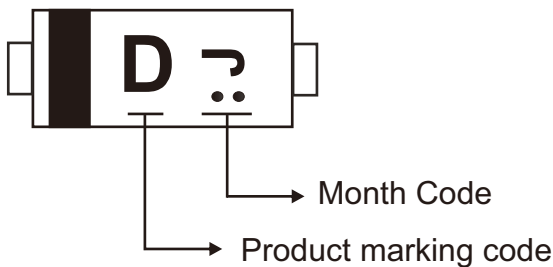
Month	Odd Year (per A.D.)	Even Year (per A.D.)
Jan	1	E
Feb	2	F
Mar	3	H
Apr	4	J
May	5	K
Jun	6	L
Jul	7	N
Aug	8	P
Sep	9	U
Oct	T	X
Nov	V	Y
Dec	C	Z



D: Product marking code
⌘: Month Code

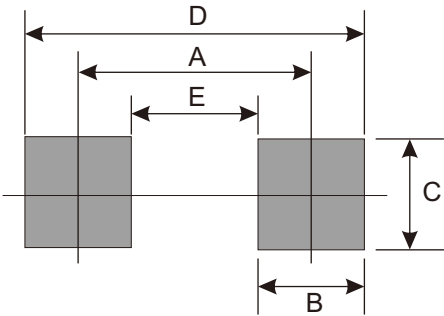
For example as follows:

- Product marking code: D
- Manufacture date_ Year: 2012 (Even year) / Month: Apr
Month code: J (Month code rotated 90° and two dots below the month code.)



Suggested PAD Layout

SIZE	SOD-923F	
	(mm)	(inch)
A	0.90	0.035
B	0.30	0.012
C	0.40	0.016
D	1.20	0.047
E	0.60	0.024



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-923F	8,000	7