

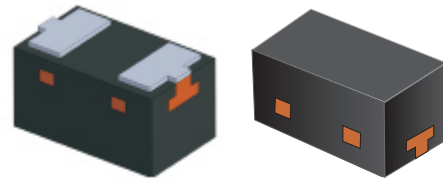
CZRQC52C2V4-HF

Voltage 2.4 Volts

Power 125 mW

RoHS Device

Halogen Free



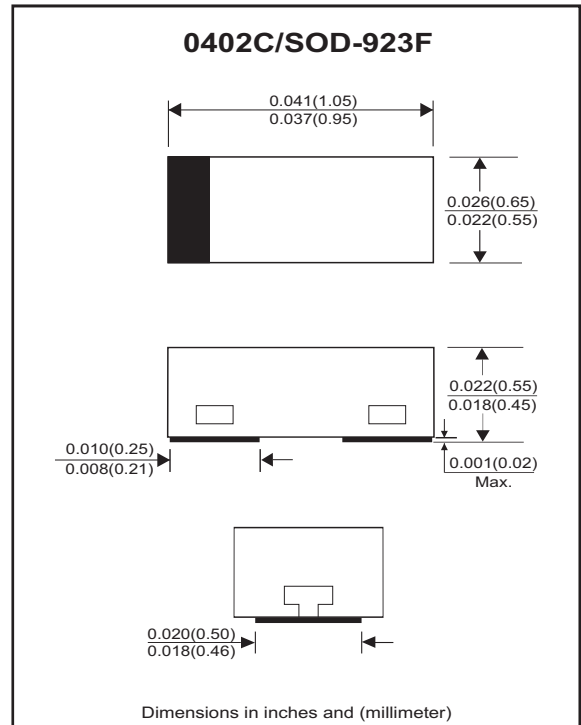
Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.

Mechanical data

- Case: 0402C/SOD-923F standard package.
Molded plastic.
- Terminals: Matte tin plated, solderable per MIL-STD-750,method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.001 grams(approx.).

Circuit diagram



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Forward Voltage Drop at $I_f = 10 \text{ mA}$	V_F	0.9	V
Maximum Power Dissipation at 25 °C	P_D	125	mW
Forward current , surge peak 8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I_{FSM}	2.0	A
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{stg}	-55 to +125	°C

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

Part Number	Marking Code	Zener Voltage				Operating resistance		Rising operating Resistance		Reverse current	
		$V_Z(V)$				$Z_Z(\text{Ohm})$		$Z_{ZK}(\text{Ohm})$		$I_R(\mu A)$	
		Min	Typ	Max	$I_Z(\text{mA})$	Max	$I_Z(\text{mA})$	Max	$I_Z(\text{mA})$	Max	$V_R(V)$
CZRQC52C2V4-HF	Z2	2.28	2.40	2.52	5	85	5	600	1	100	1

RATING AND CHARACTERISTIC CURVES (CZRQC52C2V4-HF)

Fig.1- Type Forward Voltage

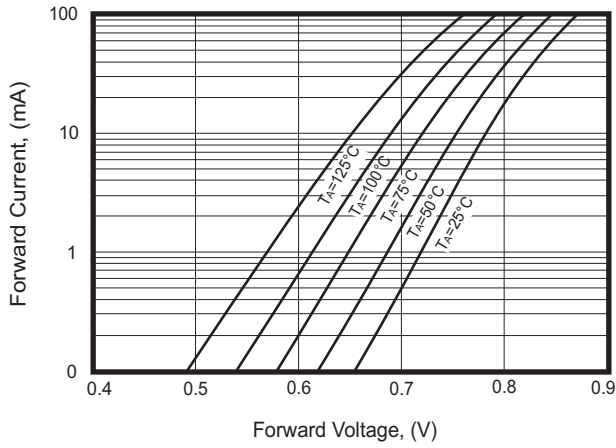


Fig.2 - Zener Voltage Versus Zener Current

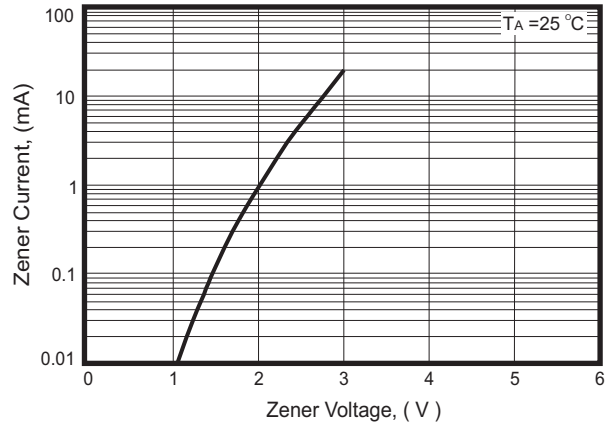
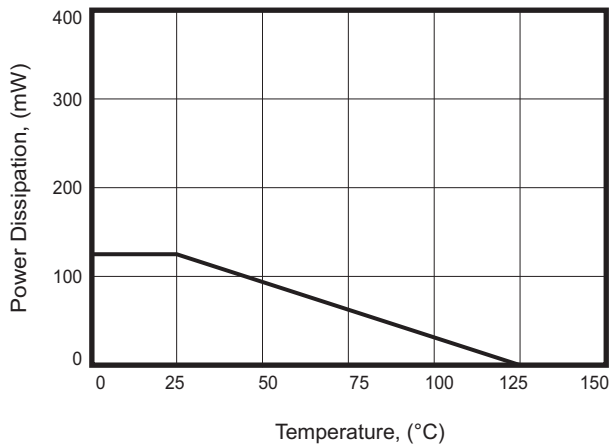
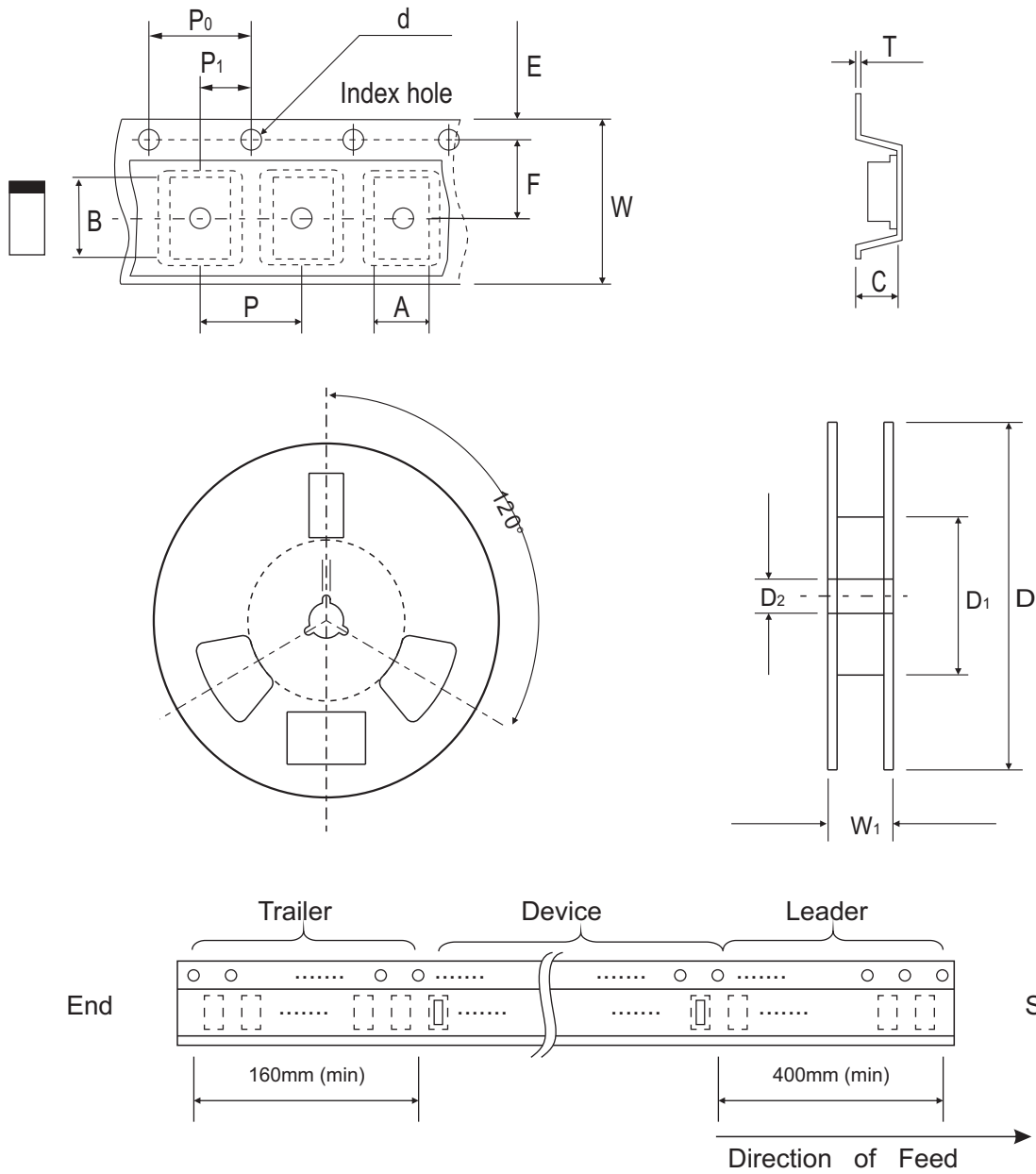


Fig.3 - Steady State Power Derating



Reel Taping Specification



0402C (SOD-923F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(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

0402C (SOD-923F)	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(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

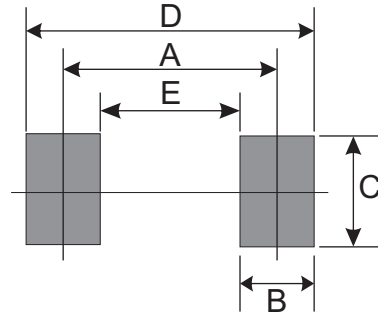
Marking Code

Part Number	Marking Code
CZRQC52C2V4-HF	Z2



Suggested PAD Layout

SIZE	0402C/SOD-923F	
	(mm)	(inch)
A	0.70	0.028
B	0.40	0.016
C	0.70	0.028
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