

CDSQR4148

RoHS Device

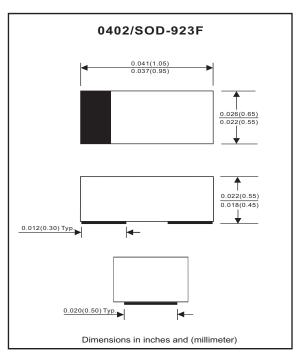


Features

- -High Speed.
- -Designed for mounting on small surface.
- -Extremely thin/leadless package.
- -High mounting capability, strong surge withstand, high reliability.

Mechanical data

- -Case: 0402/SOD-923F standard package, molded plastic.
- -Terminals: Gold plated, solderable per MIL-STD-750,method 2026.
- -Marking Code: Cathode band & S3
- -Mounting position: Any
- -Weight: 0.001 gram(approx.).



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

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Repetitive peak reverse voltage		Vrrm			100	V
Reverse voltage		Vr			75	V
Average forward current		lo			150	mA
Forward current,surge peak	Tp=1uS Tp=1mS	lfsm		4 1		А
Repetitive peak forward current		IFRM			300	mA
Power Dissipation		Pb			125	mW
Storage temperature		Тѕтс	-40		+125	°C
Junction temperature		Tj			+125	°C

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

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Parameter	Conditions	Symbol	Min	Тур	Max	Unit	
Forward voltage	IF = 50 mA DC	VF			1.0	V	
Reverse current	VR = 20 V VR = 75 V	lr			25 2.5	nA uA	
Capacitance between terminals	f = 1 MHz,and 0VDC reverse voltage	Ст			4	РF	
Reverse recovery time	IF = IR= 10 mA, RL =100 ohms, Irr = 1mA	Trr			4	nS	

REV:B



RATING AND CHARACTERISTIC CURVES (CDSQR4148)

Fig. 1 - Forward characteristics

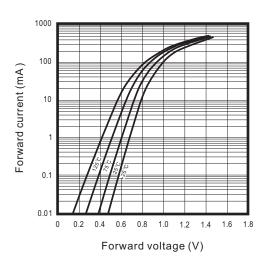


Fig. 3 - Capacitance between terminals characteristics

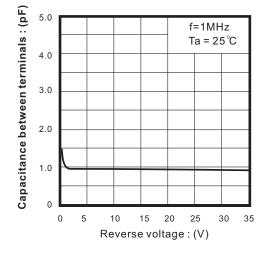


Fig. 2 - Reverse characteristics

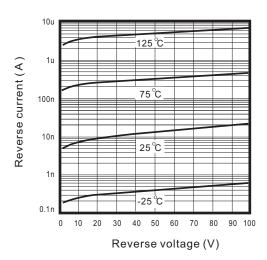
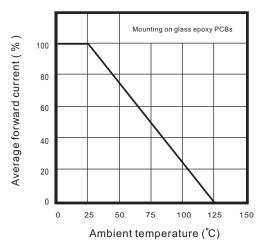
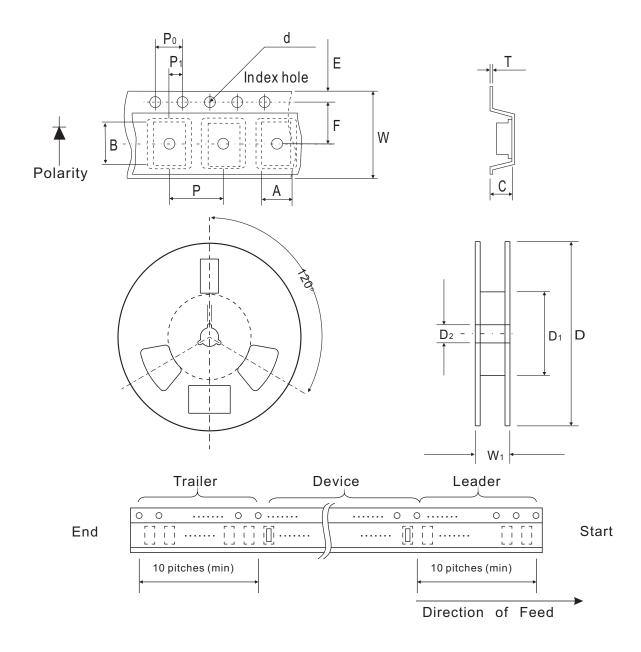


Fig. 4 - Current derating curve





Reel Taping Specification



	SYMBOL	Α	В	С	d	D	D ₁	D2
0402 (SOD-923F)	(mm)	0.75 ± 0.10	1.15 ± 0.10	0.60 ± 0.10	1.55 ± 0.10	178 ± 1	60.0 MIN.	13.0 ± 0.20
	(inch)	0.030 ± 0.004	0.045 ± 0.004	0.024 ± 0.004	0.061 ± 0.004	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

	SYMBOL	Е	F	Р	P₀	P ₁	T	W	W 1
0402 (SOD-923F)	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.22 ± 0.05	8.00 ± 0.20	13.5 MAX.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.002	0.315 ± 0.008	0.531 MAX.



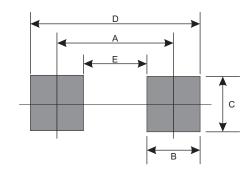
Marking Code

Part Number	Marking Code
CDSQR4148	S 3



Suggested PAD Layout

SIZE	0402/SOD-923F			
SIZE	(mm)	(inch)		
Α	0.750	0.030		
В	0.500	0.020		
С	0.700	0.028		
D	1.250	0.049		
E	0.250	0.010		



Standard Package

Case Type	Qty per Reel	Reel Size	
Oase Type	(Pcs)	(inch)	
0402/SOD-923F	5000	7	