

CDSV4148-G

RoHS Device



Features

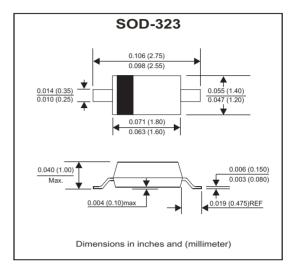
- Fast Switching Speed
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications.

Mechanical data

- Case: SOD-323, Molded Plastic

- Terminals: Solderable per MIL-STD-202, Method208

- Mounting position: Any.



Circuit Diagram



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

Parameter	Symbol	Value	Unit
Non-Repetitive peak reverse voltage	VRM	100	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	VRRM VRWM VR	100	V
RMS reverse voltage	VR(RMS)	71	٧
Forward continuous current	lғм	300	mA
Average rectified output current	lo	150	mA
Non-Repetitive peak forward surge current @ t=8.3ms	IFSM	2.0	Α
Power dissipation	Po	200	mW
Thermal resistance from junction to ambient	RөJA	625	°C/W
Junction temperature range	Tj	-40 ~ +150	°C
Storage temperature range	Тѕтс	-55 ~ +150	°C

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

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Forward voltage	IF1 = 1mA IF2 = 10mA IF3 = 50mA IF4 = 150mA	VF			0.715 0.855 1.0 1.25	V
Reverse current	VR = 75 V VR = 20 V	lR			1 25	uA nA
Capacitance between terminals	VR = 0V, f = 1MHz	Ст			2	РF
Reverse recovery time	IF = IR = 10mA, RL =100 Ω, Irr = 0.1 X IR	Trr			4	nS

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



PATING AND CHARACTERISTIC CURVES (CDSV4148-G)

Fig.2 - Reverse Characteristics

1000

1000

Ta=100°C

Ta=25°C

1000

1.0

1.0

1.0

1.0

Reverse Voltage, VR (V)

Fig.3 - Capacitance Characteristics

1.2

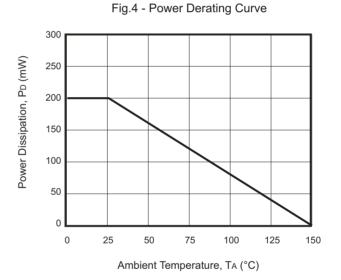
TA=25°C f=1MHz

1.0

0.9

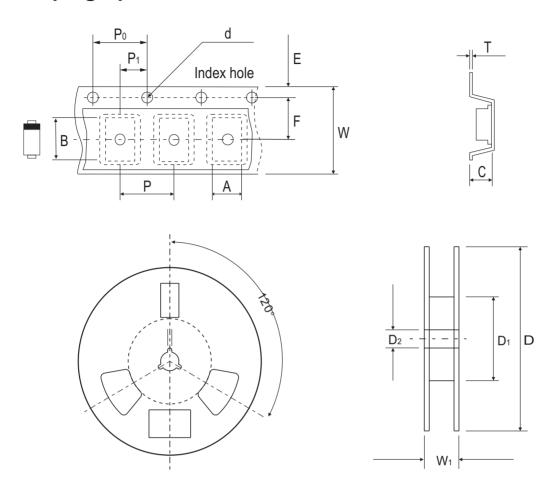
0.9

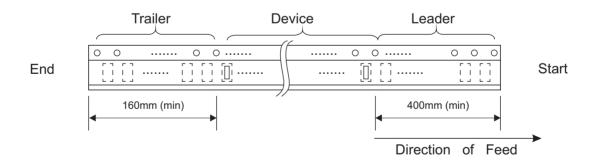
Reverse Voltage, VR (V)





Reel Taping Specification





	SYMBOL	Α	В	С	d	D	D1	D2
SOD-323	(mm)	1.46 ± 0.05	2.90 ± 0.05	1.25 ± 0.05	1.50 + 0.10	178.00 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.057 ± 0.002	0.114 ± 0.002	0.049 ± 0.002	0.059 + 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

	SYMBOL	E	F	Р	Po	P1	W	W 1
SOD-323	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

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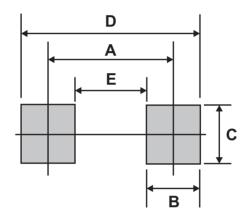
Marking Code

Part Number	Marking Code
CDSV4148-G	T4



Suggested PAD Layout

SIZE	SOD-323			
OILL	(mm)	(inch)		
Α	2.15	0.085		
В	0.80	0.031		
С	0.70	0.028		
D	2.95	0.116		
E	1.35	0.053		



Standard Packaging

	REEL PACK			
Case Type	REEL (pcs)	Reel Size (inch)		
SOD-323	3,000	7		