

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ACDST-99-G/70-G

Reverse Voltage: 70 Volts Forward Current: 200 mA

RoHS Device



- -Fast switching speed.
- -High mounting capability, strong surge withstand, high reliability.
- -Comply with AEC-Q101.

Mechanical data

- -Case: SOT-23, molded plastic.
- -Terminals: solderable per MIL-STD-750,

method 2026.

-Approx. weight: 0.0078 grams

Circuit diagram

Storage temperature range





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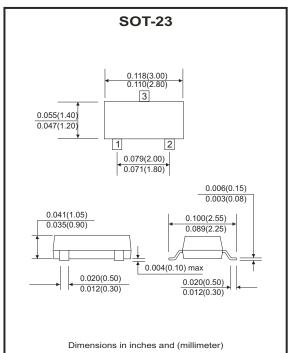
ACDST-99-G ACDST-70-G			Dimensions in inches and (millimeter)			
Maximum Ratings (at Ta=25°C unless otherwise noted)						
Parameter	Symbol		Limit		Units	
Reverse voltage	Vr		70		٧	
Forward current	lF		200		mA	
Peak forward surge current	IFSM		500		mA	
Power dissipation	Po		225		mW	
Thermal resistance junction to ambient	Reja		556		°C/W	
Junction temperature	TJ		150		°C	

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

Parameter	Symbol	Conditions	Min.	Max.	Units
Reverse breakdown voltage	V _{BR}	I _R =100μA	70		V
Forward voltage	VF	@IF=1mA @IF=10mA @IF=50mA @IF=150mA		0.715 0.855 1.0 1.25	٧
Reverse current	lR	@V _R =70V		2.5	μA
Reverse recovery time	t _{rr}	I _F =I _R =10mA, Irr=0.1×I _R , R _L =100Ω		6	nS
Capacitance between terminals	Ст	V _R =0V, f=1.0MHz		1.5	pF

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





-55 to +150

°C



RATING AND CHARACTERISTIC CURVES (ACDST-99-G/70-G)

Fig.1 - Forward Characteristics

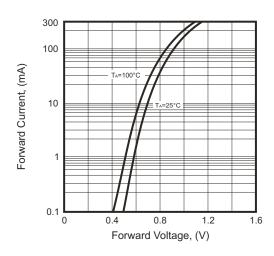


Fig.3 - Capacitance Between Terminals Characteristics

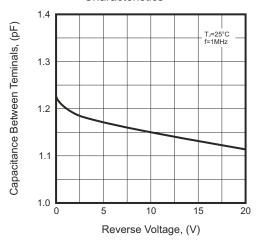


Fig.2 - Reverse Characteristics

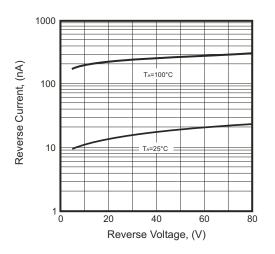
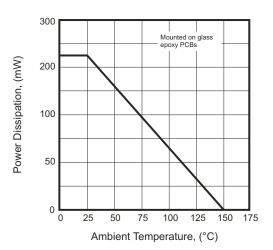
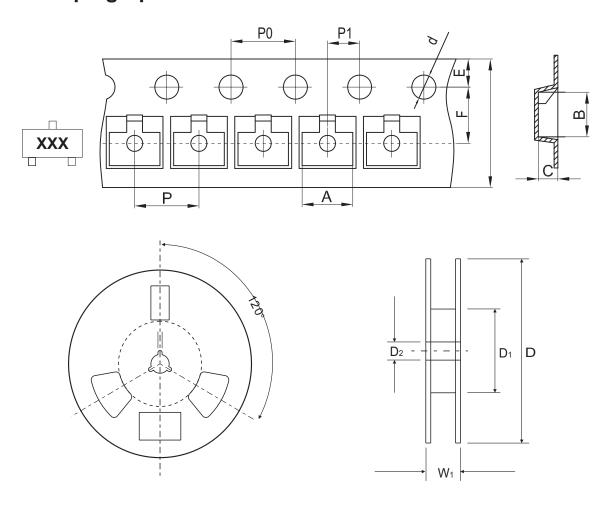


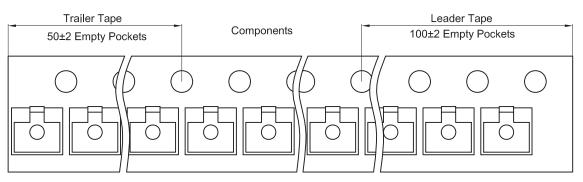
Fig.4 - Power Derating Curve





Reel Taping Specification





	SYMBOL	Α	В	С	d	D	D 1	D2
SOT-23	(mm)	3.15 ± 0.10	2.77 ± 0.10	1.22 ± 0.10	1.50 + 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.124 ± 0.004	0.109 ± 0.004	0.048 ± 0.004	0.059 + 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

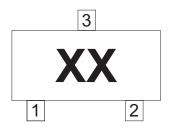
	SYMBOL	Е	F	Р	Po	P1	W	W 1
SOT-23	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	12.30 ± 1.0
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

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Marking Code

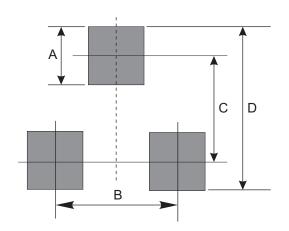
Part Number	Marking Code
ACDST-99-G	A7
ACDST-70-G	A4



xx = Product type marking code

Suggested PAD Layout

SIZE	SOT-23			
SIZE	(mm)	(inch)		
А	0.80	0.031		
В	1.90	0.075		
С	2.02	0.080		
D	2.82	0.111		



Standard Packaging

	REEL PACK				
Case Type	REEL (pcs)	Reel Size (inch)			
SOT-23	3,000	7			

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