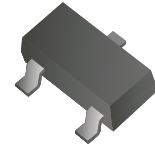


CDST-99-G/70-G/56-G

Reverse Voltage: 70 Volts

Forward Current: 200 mA

RoHS Device



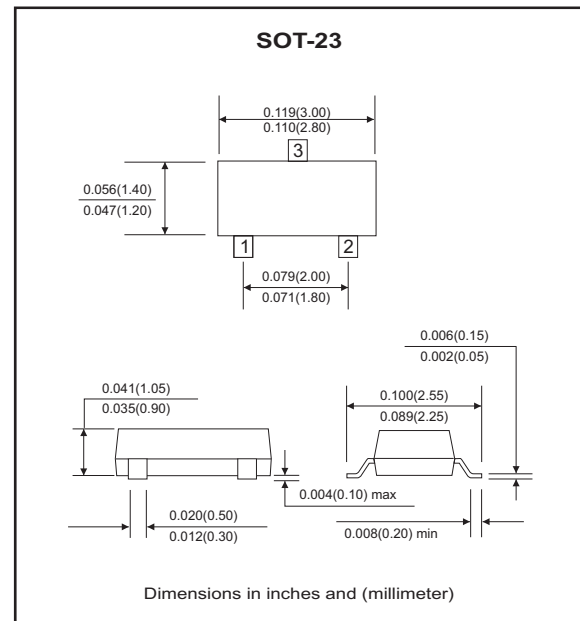
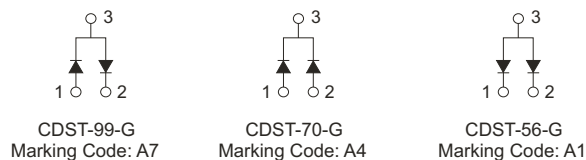
Features

- Design for mounting on small surface.
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.

Mechanical data

- Case: SOT-23, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Approx. weight: 0.0078 grams

Circuit diagram



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

Parameter	Symbol	Value	Units
Reverse voltage	V_R	70	V
Forward current	I_F	200	mA
Peak surge forward current	I_{FSM}	500	mA
Power dissipation	P_D	225	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	556	°C/W
Maximum junction temperature	T_J	150	°C
Storage temperature	T_{STG}	-55 to +150	°C

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

Parameter	Symbol	Conditions	Min.	Max.	Units
Reverse breakdown voltage	V_{BR}	$I_R=100\mu A$	70		V
Forward voltage	V_F	@ $I_F=1mA$ @ $I_F=10mA$ @ $I_F=50mA$ @ $I_F=150mA$		0.715 0.855 1.0 1.25	V
Reverse current	I_R	@ $V_R=70V$		2.5	μA
Reverse recovery time	t_{rr}	$I_F=I_R=10mA$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$		6	nS
Diode capacitance	C_T	$V_R=0V$, $f=1.0MHz$		1.5	pF

RATING AND CHARACTERISTIC CURVES (CDST-99-G/70-G/56-G)

Fig.1 - Forward Characteristics

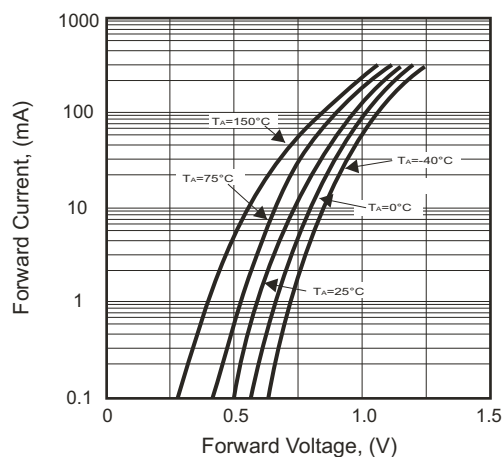


Fig.2 - Reverse Characteristics

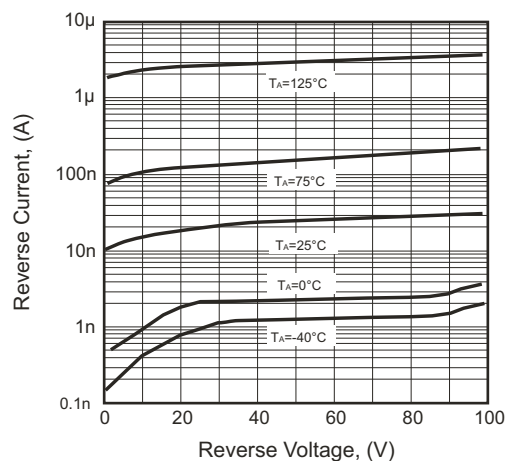


Fig.3 - Capacitance Between Terminals Characteristics

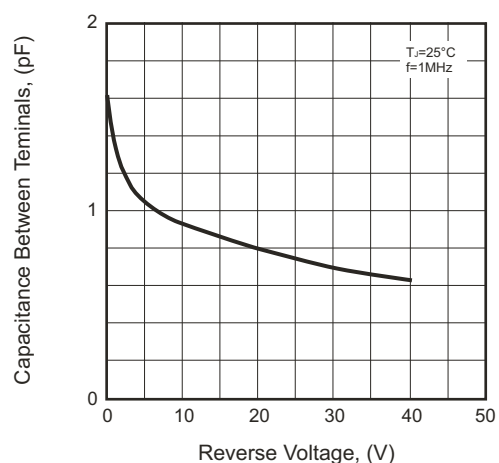
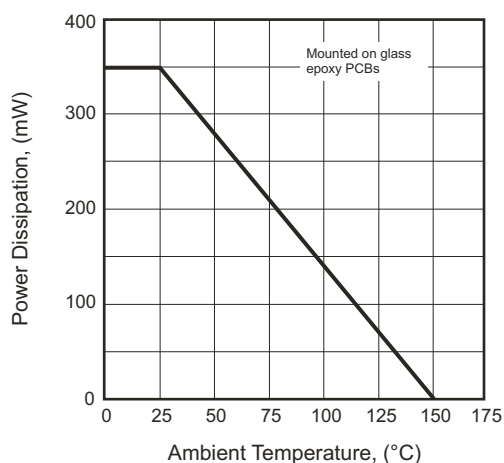
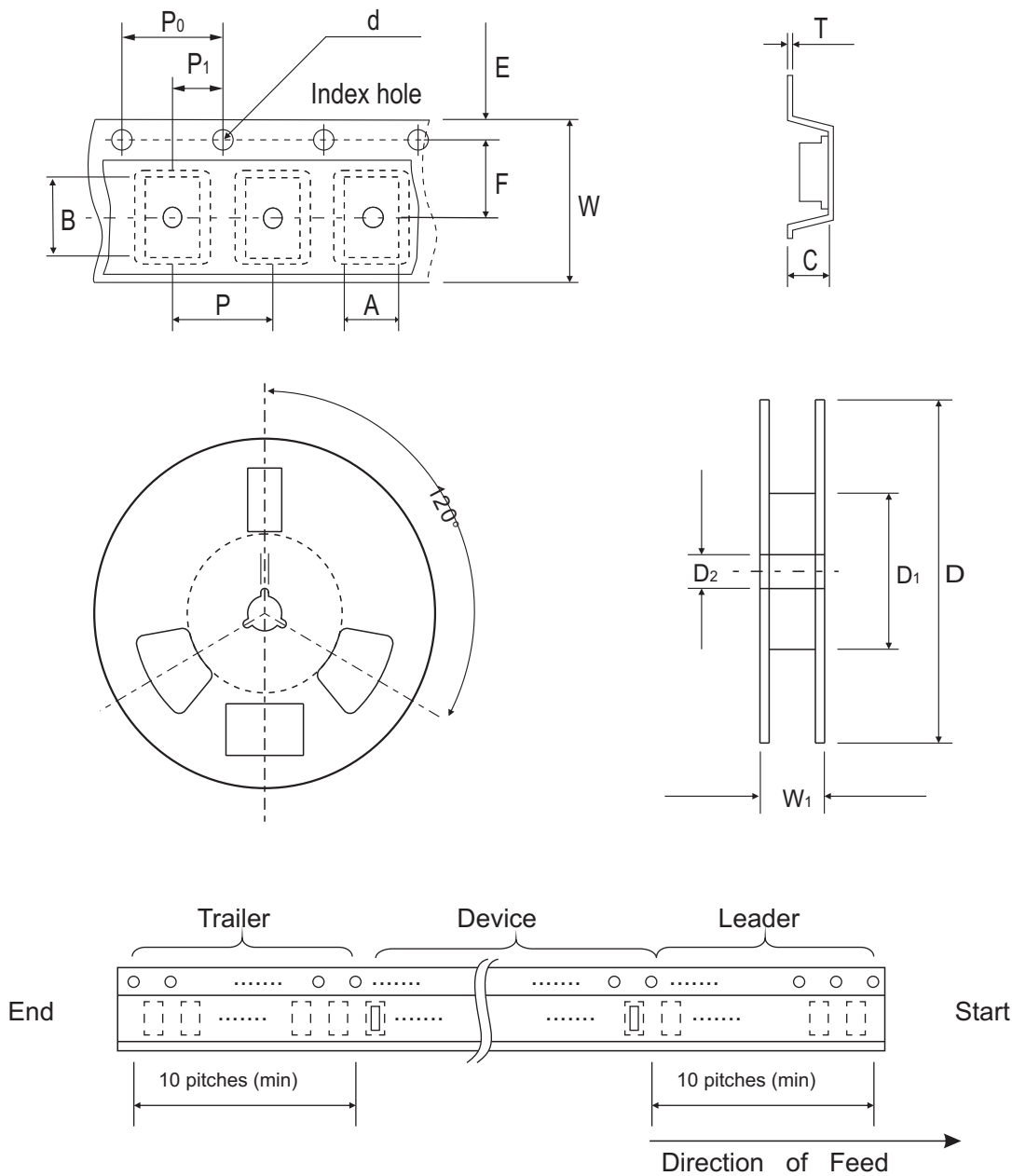


Fig.4 - Power Derating Curve



Reel Taping Specification

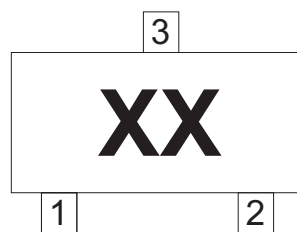


SOT-23	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	3.10 ± 0.10	2.85 ± 0.10	1.40 ± 0.10	1.55 ± 0.10	178 ± 1.00	54.00 (min)	13.00 ± 0.20
	(inch)	0.122 ± 0.004	0.112 ± 0.004	0.055 ± 0.004	0.061 ± 0.004	7.008 ± 0.039	1.969 (min)	0.512 ± 0.008

SOT-23	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	8.00 ± 0.30	14.40 (max)
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.315 ± 0.012	0.567 (max)

Marking Code

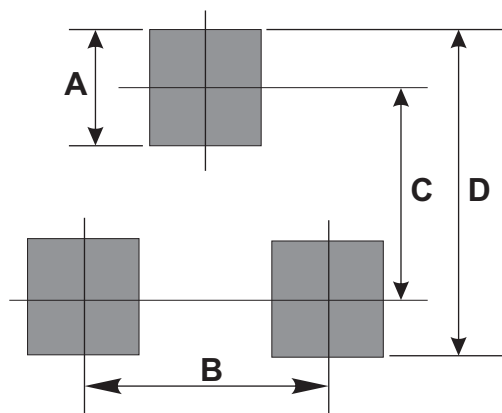
Part Number	Marking Code
CDST-99-G	A7
CDST-70-G	A4
CDST-56-G	A1



xx = Product type marking code

Suggested PAD Layout

SIZE	SOT-23	
	(mm)	(inch)
A	0.80	0.031
B	1.90	0.075
C	2.02	0.080
D	2.82	0.111



Standard Packaging

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

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

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