

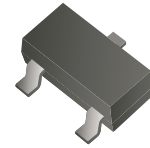
ACDSV3-D217U-HF

Reverse Voltage: 80 Volts

Forward Current: 100 mA

RoHS Device

Halogen Free



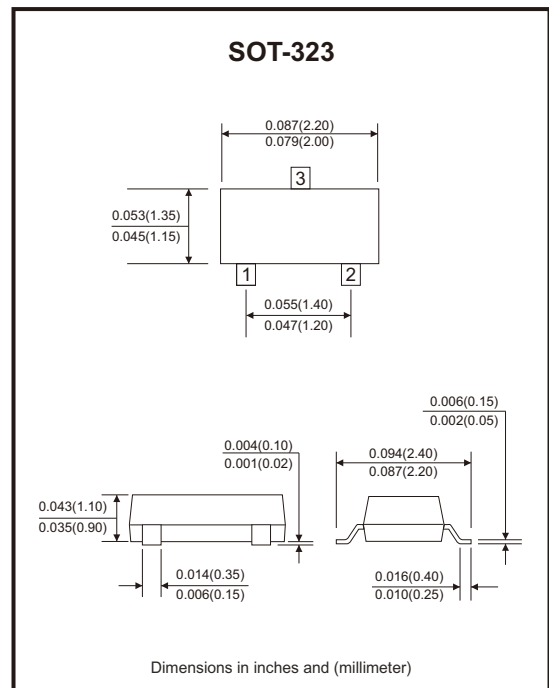
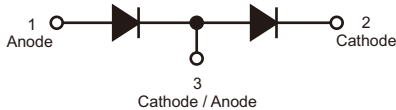
Features

- Fast switching speed.
- Small surface mounting type.
- Two diode elements are connected in series.
- Surface mount package ideally suited for automatic insertion.
- AEC-Q101 Qualified

Mechanical data

- Case: SOT-323, molded plastic.

Circuit diagram



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

Parameter	Symbol	Value	Unit
Non repetitive peak reverse voltage	V _{RM}	80	V
Repetitive peak reverse voltage	V _R RM	80	V
Working peak reverse voltage	V _R WM		
DC reverse voltage	V _R		
Peak forward surge current @t=10ms	I _{FSM}	1	A
Forward continuous current	I _{FM}	300	mA
Average rectified output current	I _o	100	mA
Power dissipation	P _D	200	mW
Operating and storage temperature range	T _J , T _{STG}	-55 to +125	°C

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

Parameter	Symbol	Conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	80		V
Reverse voltage leakage current	I_R	$V_R=70V$		0.1	μA
Forward voltage	V_F	$I_F=100mA$		1200	mV

Typical Rating and Characteristic Curves (ACDSV3-D217U-HF)

Fig.1 - V_F - I_F Characteristics

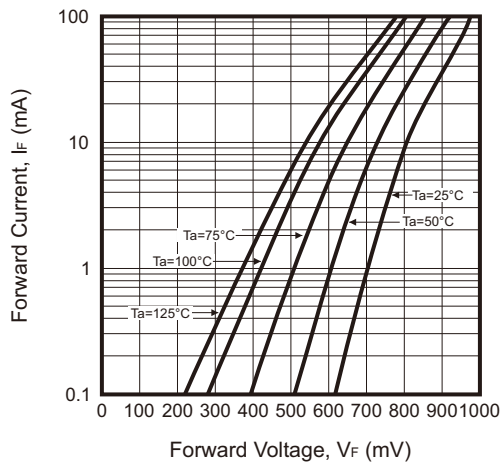
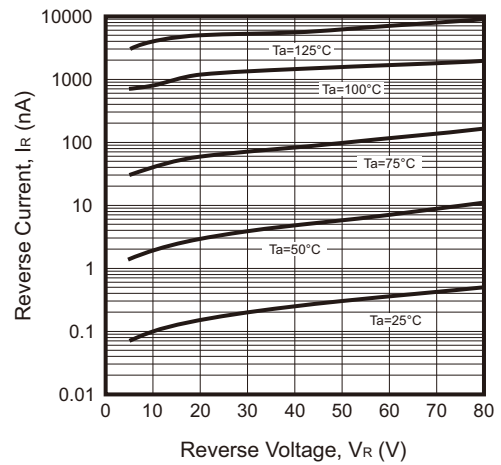
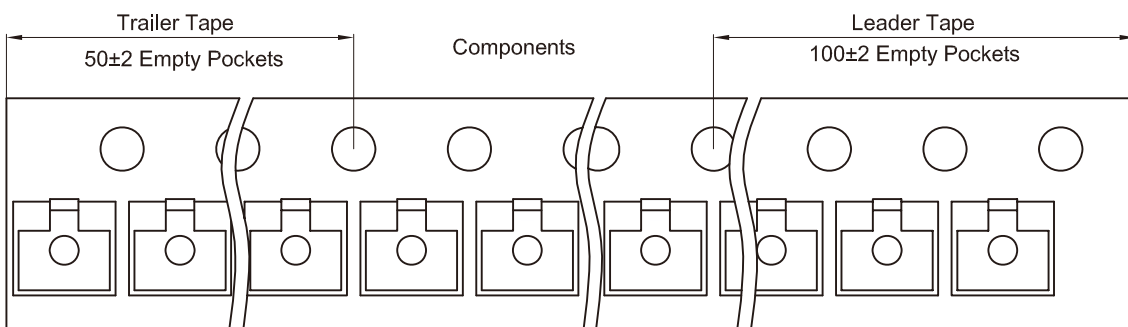
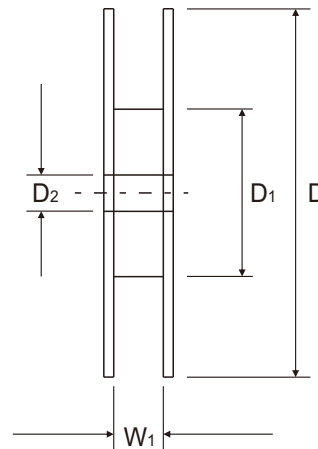
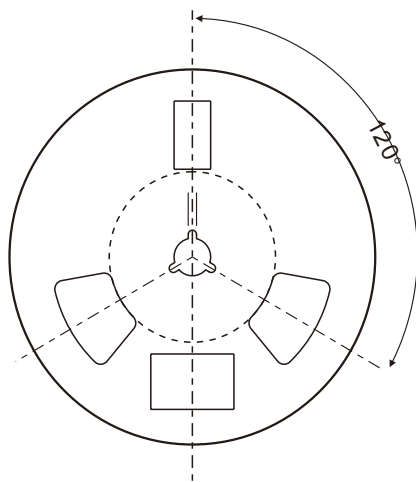
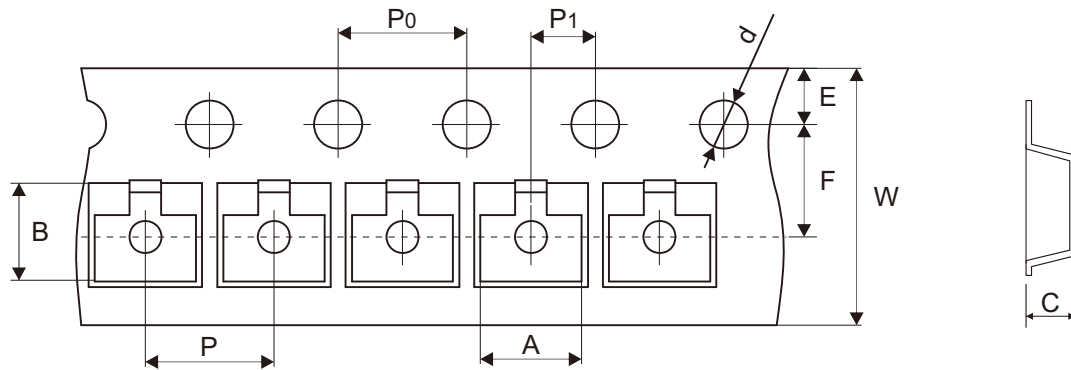


Fig.2 - V_R - I_R Characteristics



Reel Taping Specification



SOT-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.25 ± 0.10	2.55 ± 0.10	1.20 ± 0.10	1.50 ± 0.10	178.00 ± 1.00	54.00 ± 0.50	13.00 ± 0.50
	(inch)	0.089 ± 0.004	0.100 ± 0.004	0.047 ± 0.004	0.059 ± 0.004	7.008 ± 0.039	2.126 ± 0.020	0.512 ± 0.020

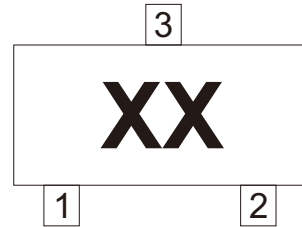
SOT-323	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	$8.00 + 0.30 - 0.10$	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	$0.315 + 0.012 - 0.004$	0.374 ± 0.039

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

REV:A

Marking Code

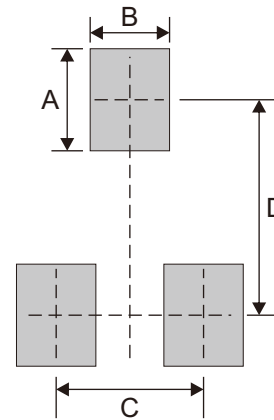
Part Number	Marking Code
ACDSV3-D217U-HF	A7



xx = Product type marking code

Suggested PAD Layout

SIZE	SOT-323	
	(mm)	(inch)
A	0.90	0.035
B	0.70	0.028
C	1.30	0.051
D	1.90	0.075



Note: 1. The pad layout is for reference purposes only.

Standard Packaging

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