

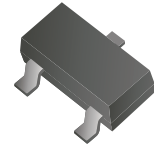
CDBV3-54/S/C/A-HF

Reverse Voltage: 30 Volts

Forward Current: 200 mA

RoHS Device

Halogen free



Features

- Design for mounting on small surface.
- High speed switching application, circuit protection.
- Low turn-on voltage.

Mechanical data

- Case: SOT-323, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Weight: 0.0055 gram (approx.).

Circuit diagram



CDBV3-54-HF



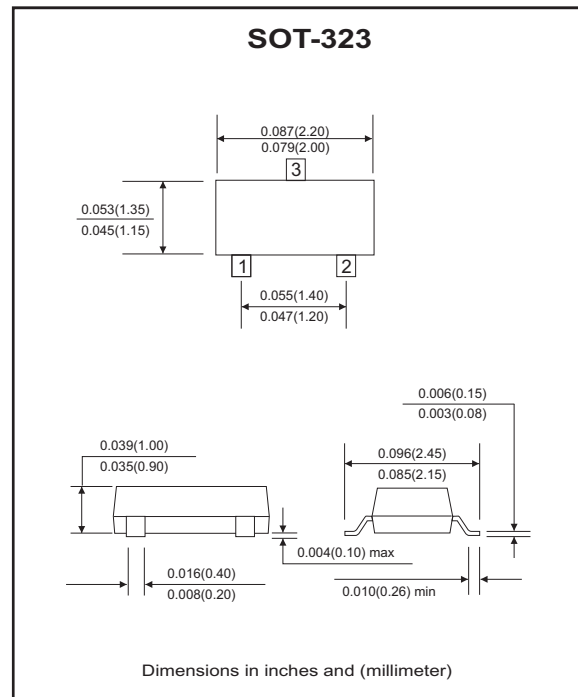
CDBV3-54S-HF



CDBV3-54C-HF



CDBV3-54A-HF



Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V_{RRM}		30	V
Reverse voltage	V_R		30	V
Forward current	I_F		200	mA
Peak surge forward current	I_{FSM}	T=1.0 sec	0.6	A
Power dissipation	P_D		200	mW
Maximum forward voltage	V_F	@ $I_F=0.1mA$ @ $I_F=1mA$ @ $I_F=10mA$ @ $I_F=30mA$ @ $I_F=100mA$	0.24 0.32 0.40 0.50 1.00	V
Maximum reverse current	I_R	@ $V_R=25V$	2	μA
Maximum reverse recovery time	T_{rr}	$I_F=I_R=10mA$, $R_L=100\Omega$	4	nS
Maximum diode capacitance	C_J	$V_R=1V$, $f=1.0MHz$	10	pF
Maximum junction temperature	T_J		125	°C
Storage temperature	T_{STG}		-65 to +125	°C

RATING AND CHARACTERISTIC CURVES (CDBV3-54/S/C/A-HF)

Fig.1 - Forward Characteristics

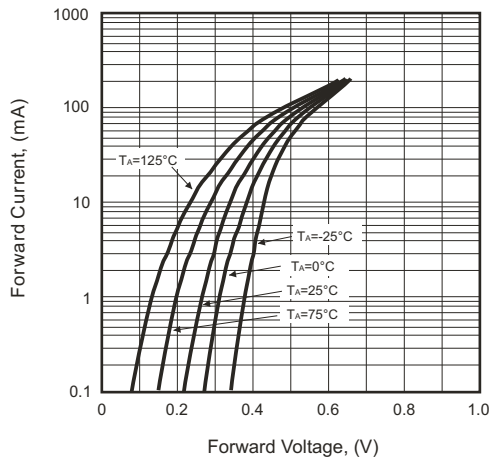


Fig.2 - Reverse Characteristics

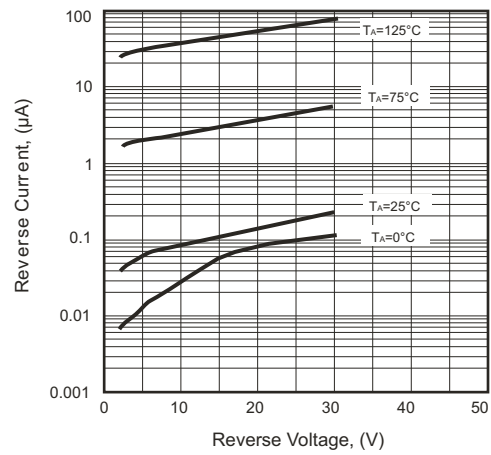


Fig.3 - Capacitance Between Terminals Characteristics

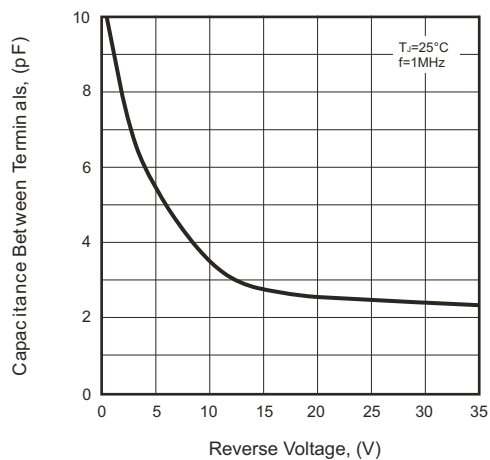
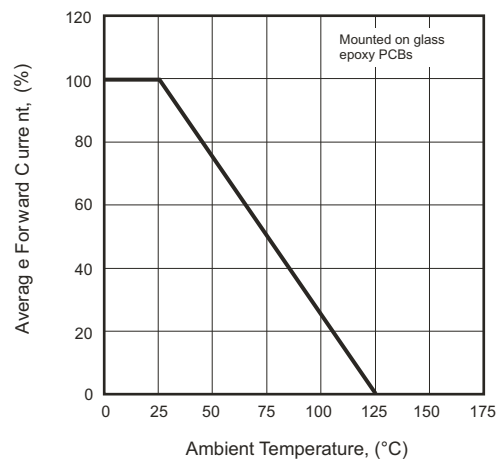
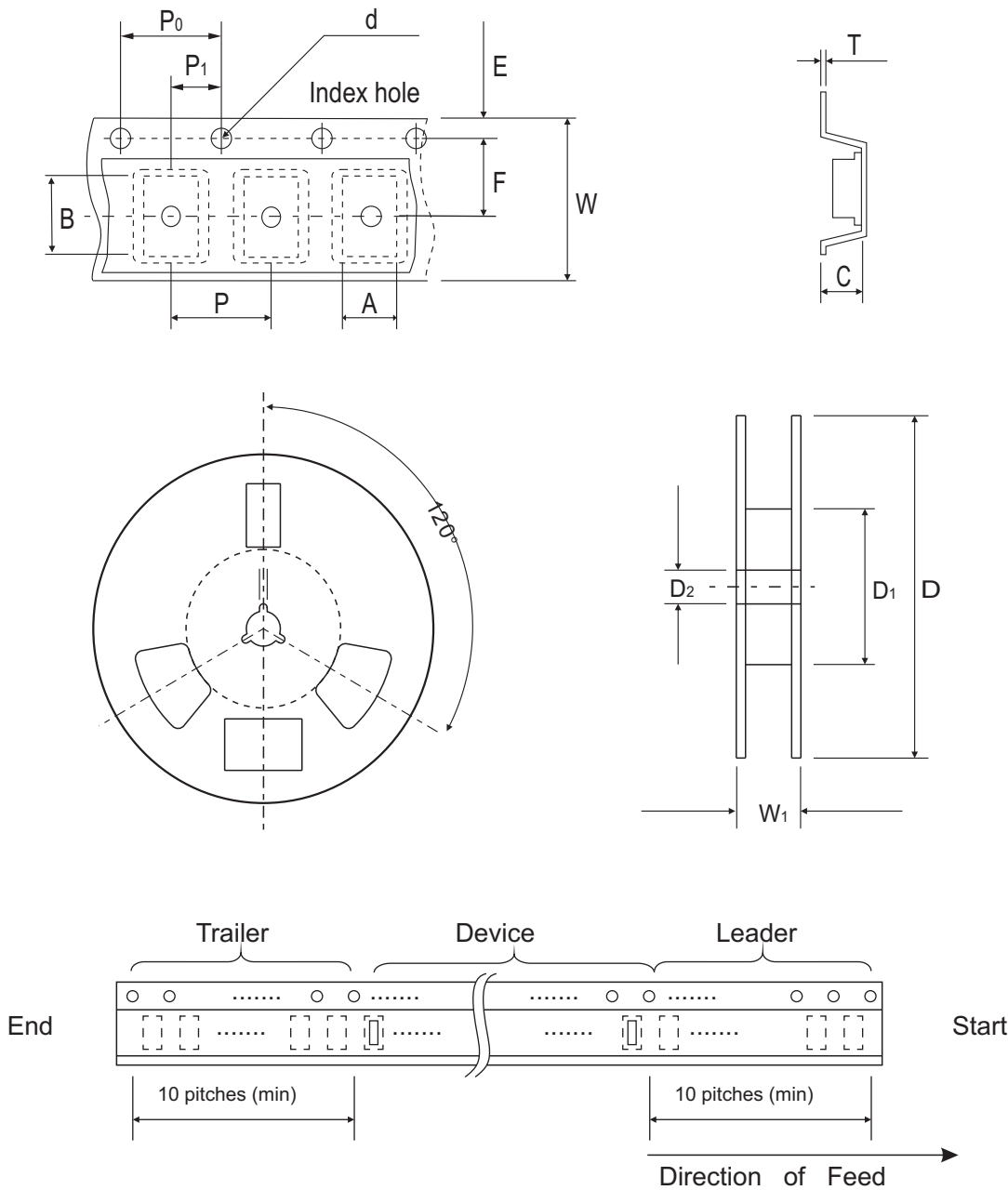


Fig.4 - Current Derating Curve



Reel Taping Specification

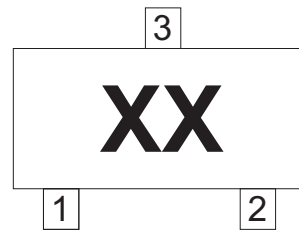


SOT-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.20 ± 0.10	2.40 ± 0.10	1.15 ± 0.10	1.55 ± 0.10	178 ± 1	50.0 MIN.	13.0 ± 0.20
	(inch)	0.087 ± 0.004	0.094 ± 0.004	0.045 ± 0.004	0.061 ± 0.004	7.008 ± 0.040	1.969 MIN.	0.512 ± 0.008

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	14.4 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

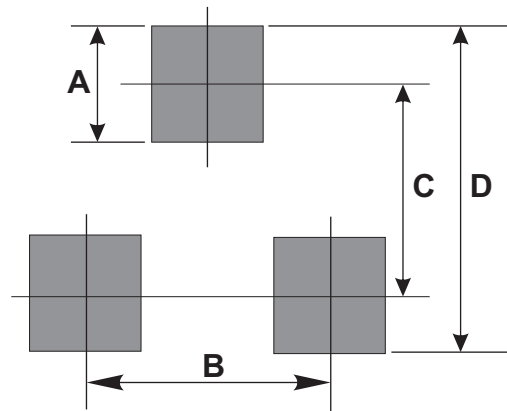
Part Number	Marking Code
CDBV3-54-HF	KL1
CDBV3-54S-HF	KL4
CDBV3-54C-HF	KL3
CDBV3-54A-HF	KL2



xx = Product type marking code

Suggested PAD Layout

SIZE	SOT-323	
	(mm)	(inch)
A	0.80	0.031
B	1.45	0.057
C	1.94	0.076
D	2.74	0.108



Standard Packaging

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
SOT-323	3000	7

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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