

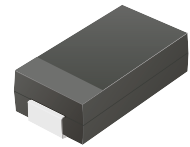
CDBA120-HF Thru. CDBA1100-HF

Reverse Voltage: 20 to 100 Volts

Forward Current: 1.0 Amp

RoHS Device

Halogen Free

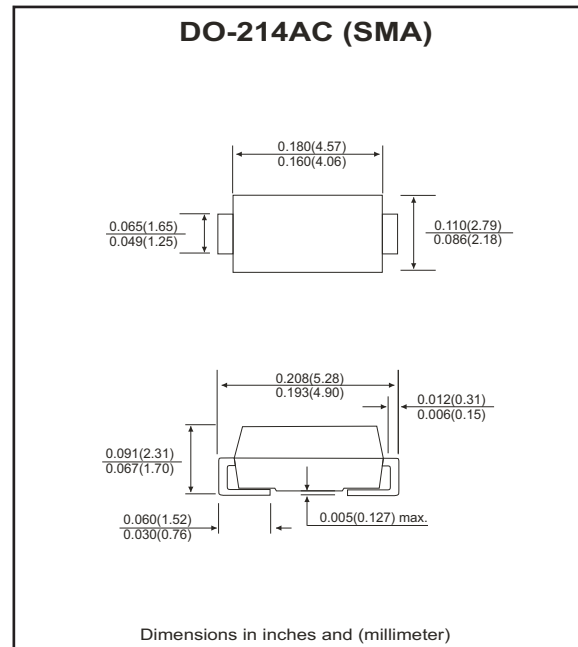


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Built-in strain relief.
- Low forward voltage drop.

Mechanical data

- Case: JEDEC DO-214AC, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.056 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBA 120-HF	CDBA 140-HF	CDBA 160-HF	CDBA 180-HF	CDBA 1100-HF	Units
Max. repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	V
Max. DC blocking voltage	V _{DC}	20	40	60	80	100	V
Max. RMS voltage	V _{RMS}	14	28	42	56	70	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	30					A
Max. average forward current	I _o	1.0					A
Max. instantaneous forward voltage at 1.0A	V _F	0.50		0.70	0.85		V
Max. DC reverse current at T _A =25 °C rated DC blocking voltage T _A =100 °C	I _R	0.5 10					mA
Max. thermal resistance (Note 1)	R _{θJA} R _{θJL}	88 20					°C/W
Max. operating junction temperature	T _J	125					°C
Storage temperature	T _{STG}	-65 to +150					°C

Notes: 1. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2×0.2 inch copper pad area.

RATING AND CHARACTERISTIC CURVES (CDBA120-HF thru CDBA1100-HF)

Fig.1 Reverse Characteristics

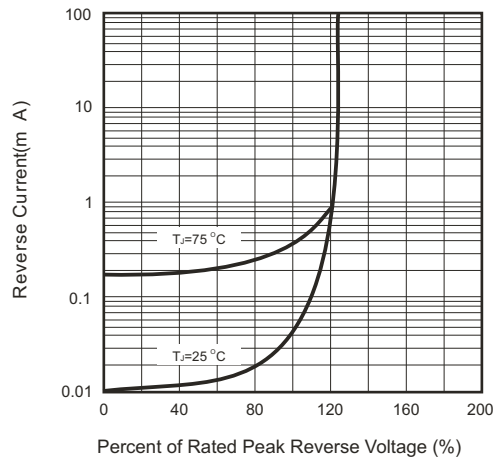


Fig.2 Forward Characteristics

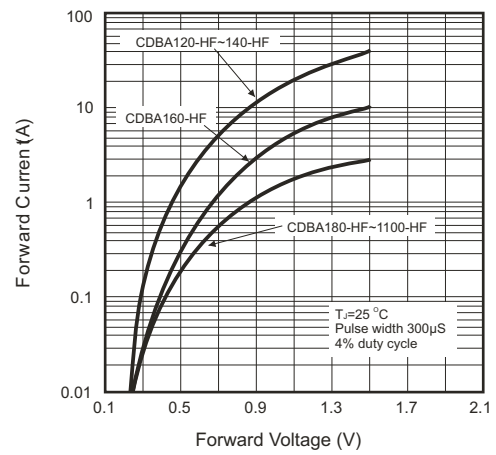


Fig.3 Junction Capacitance

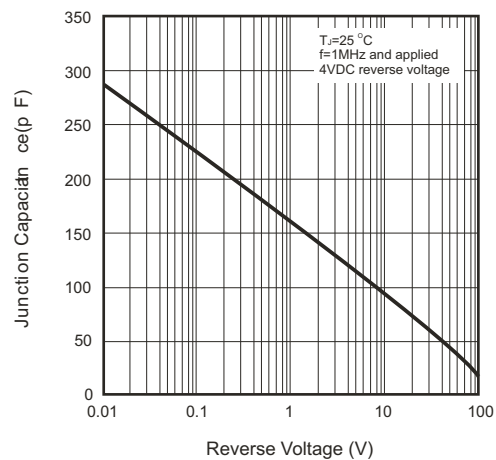


Fig.4 Current Derating Curve

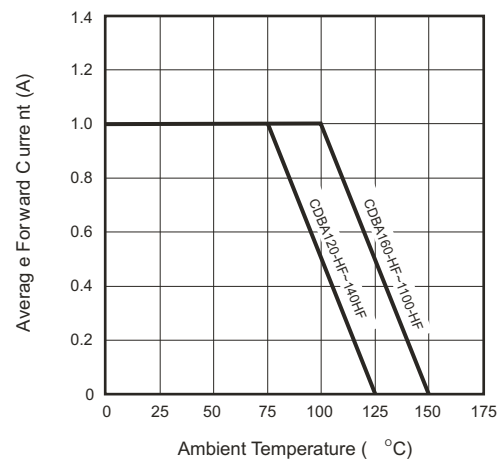
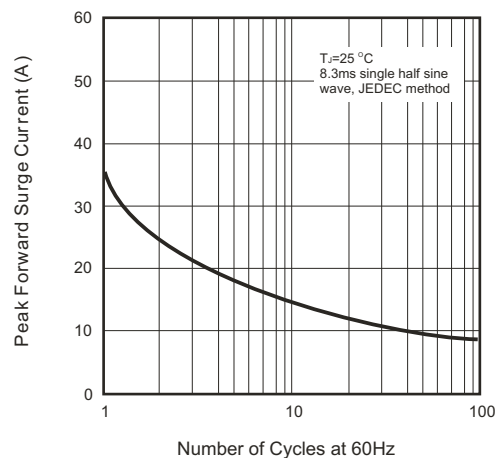
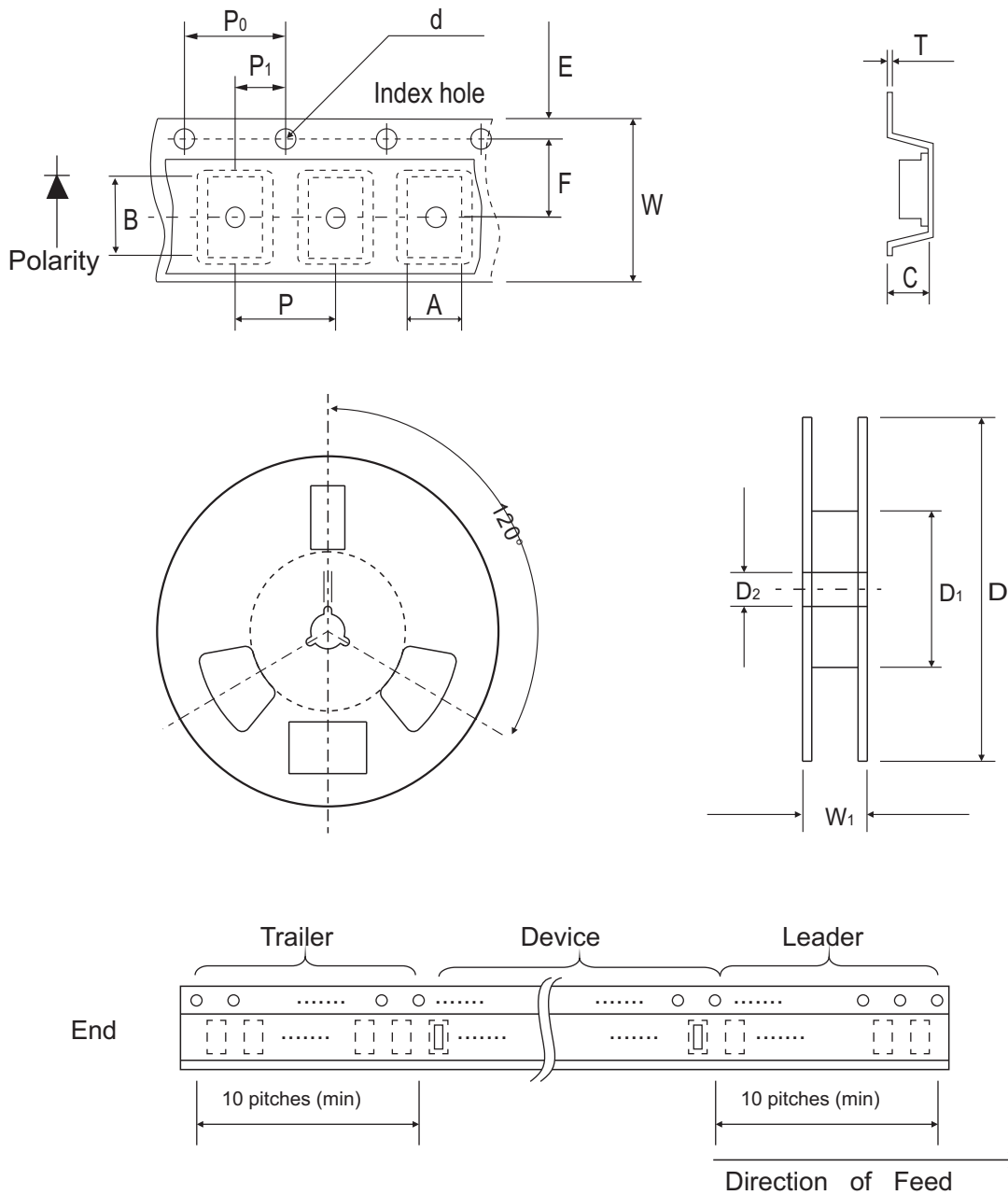


Fig.5 Non-repetitive Forward Surge Current



Reel Taping Specification



SMA (DO-214AC)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.70 (max)	5.30 (max)	2.66 (max)	1.50 ± 0.10	330	50.0 MIN.	13.5 ± 1.00
	(inch)	0.106 (max)	0.209 (max)	0.105 (max)	0.059 ± 0.004	12.99	1.969 MIN.	0.531 ± 0.039

SMA (DO-214AC)	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	12.0 ± 0.20	18.4 (max)
	(inch)	0.689 ± 0.004	0.217 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.472 ± 0.008	0.724 (max)

Marking Code

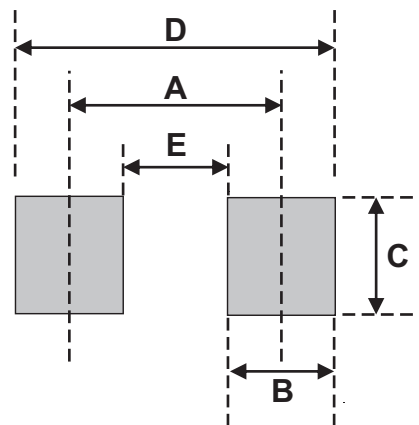
Part Number	Marking Code
CDBA120-HF	120
CDBA140-HF	140
CDBA160-HF	160
CDBA180-HF	180
CDBA1100-HF	1100



xxxx = Product type marking code

Suggested PAD Layout

SIZE	DO-214AC(SMA)	
	(mm)	(inch)
A	3.80	0.150
B	1.60	0.063
C	2.80	0.110
D	5.40	0.213
E	2.20	0.087



Standard Packaging

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
DO-214AC (SMA)	5000	13