

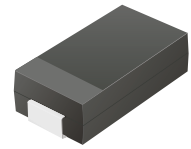
SMD Schottky Barrier Rectifiers

CDBA320-HF Thru. CDBA3100-HF

Reverse Voltage: 20 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

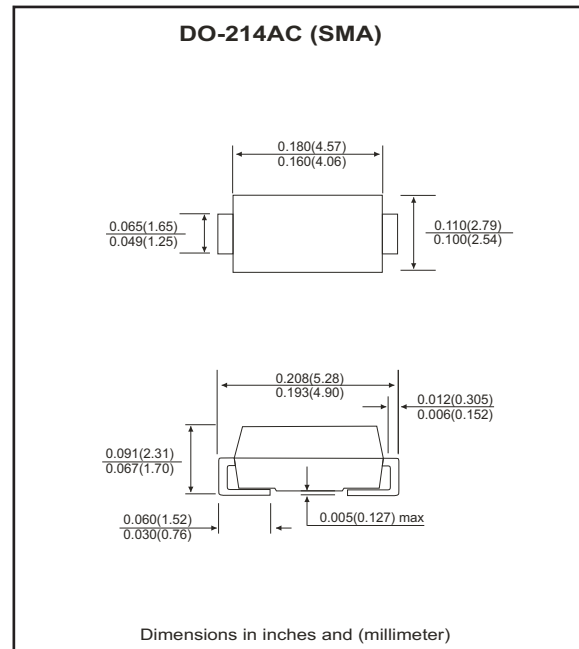


Features

- Halogen free.
- 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: 0.063 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBA 320-HF	CDBA 340-HF	CDBA 360-HF	CDBA 380-HF	CDBA 3100-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}	80					A
Max. average forward current	I _O	3.0					A
Max. instantaneous forward voltage at 3.0A	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					mA
		20			10		
Max. thermal resistance (Note 1)	R _{θJA} R _{θJL}	50 10					°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 (CDBA320-HF thru CDBA3100-HF)

Fig.1 Reverse Characteristics

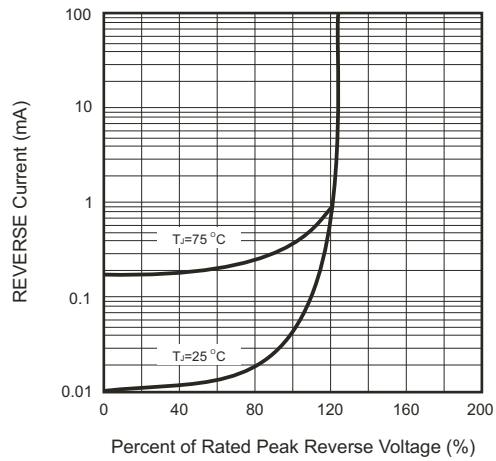


Fig.2 Forward Characteristics

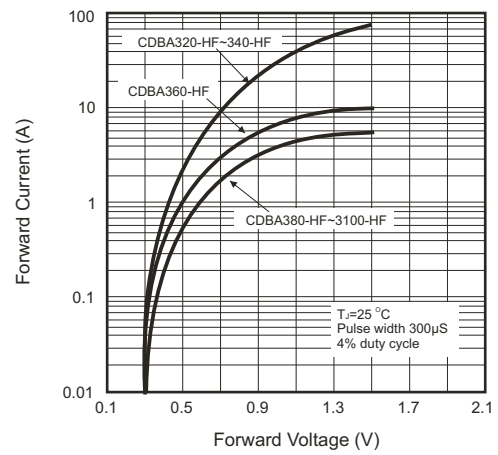


Fig.3 Junction Capacitance

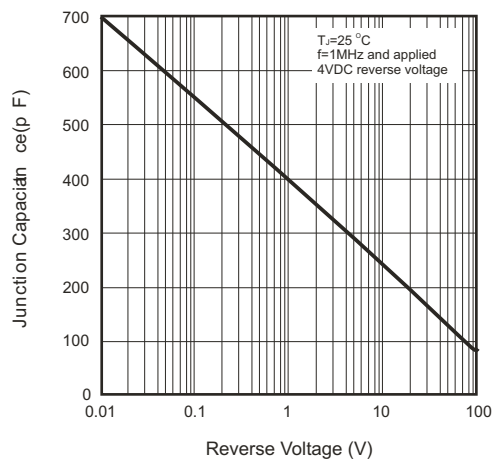


Fig.4 Current Derating Curve

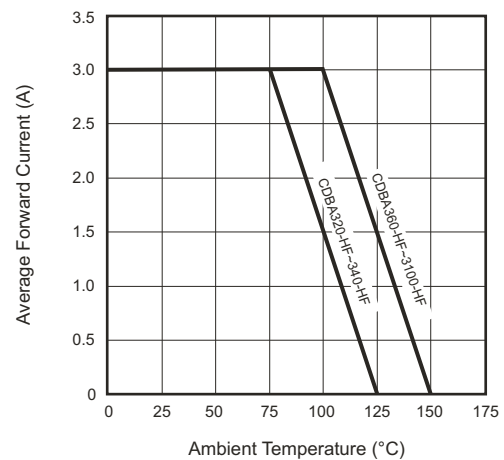
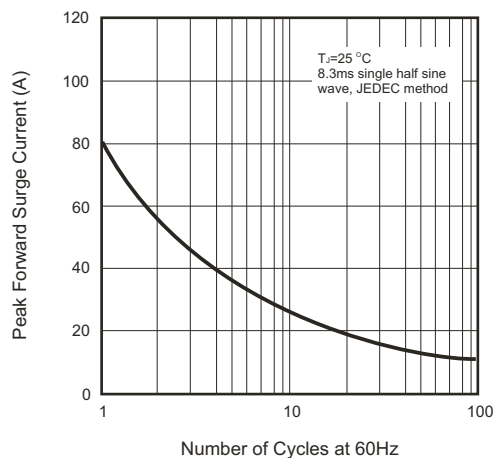
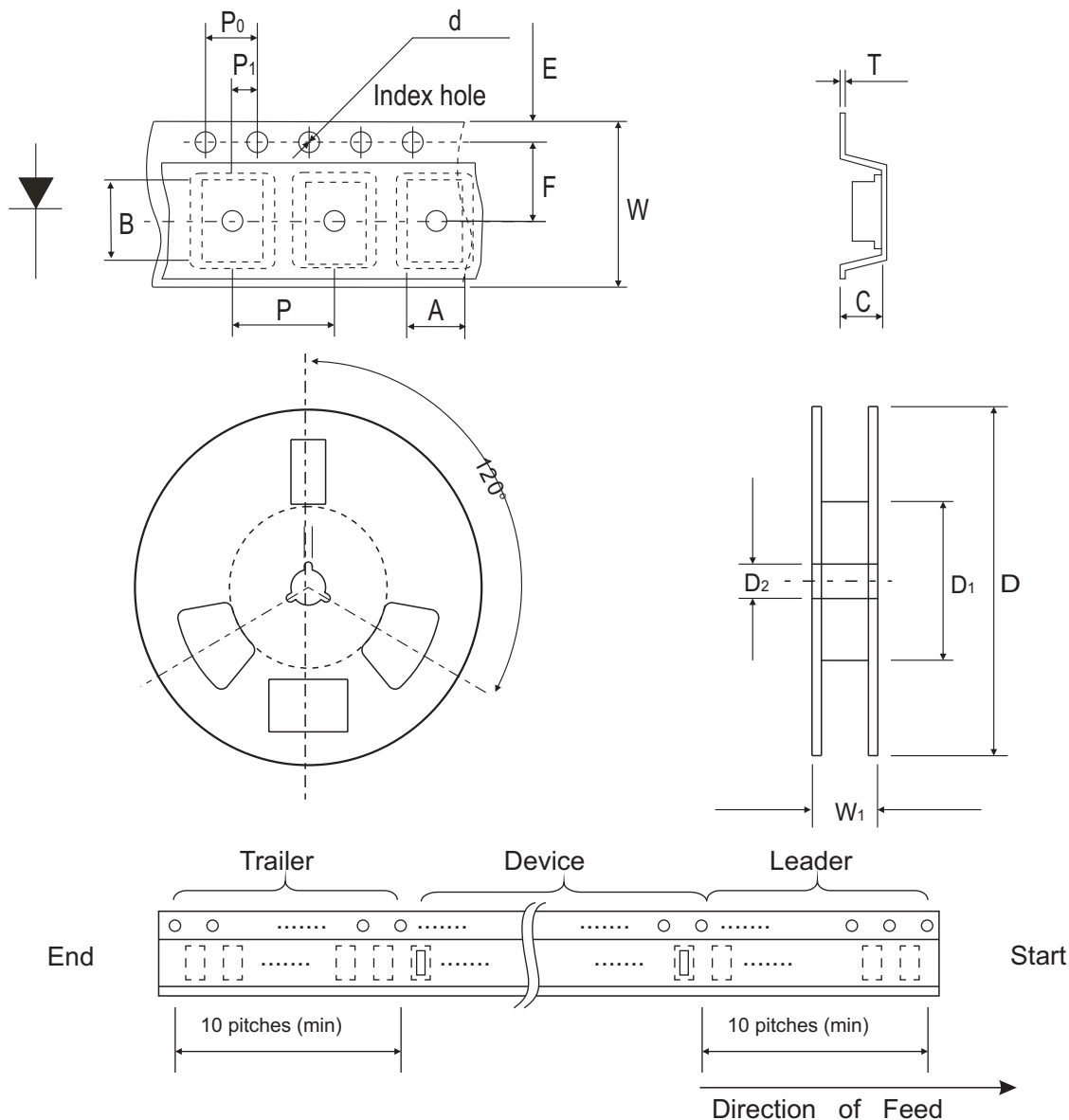


Fig.5 Non-repetitive Forward Surge Current



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DO-214AC (SMA)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	2.7 (max)	5.3 (max)	2.66 (max)	1.50 ± 0.10	330	50.0 MIN.	13.5 ± 1.00
	(inch)	0.106(max)	0.208 (max)	0.105 (max)	0.059 ± 0.004	13.00	1.969 MIN.	0.531 ± 0.039

DO-214AC (SMA)	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(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	0.216 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.472 ± 0.008	0.724 MAX

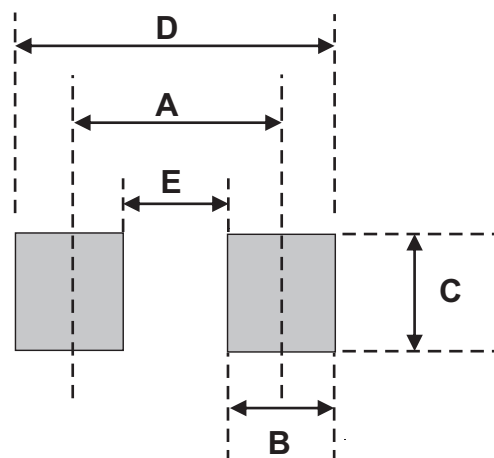
Marking Code

Park Number	Marking Code
CDBA320-HF	320
CDBA340-HF	340
CDBA360-HF	360
CDBA380-HF	380
CDBA3100-HF	3100



Suggested PAD Layout

SIZE	DO-214AC (SMA)	
	(mm)	(inch)
A	4.50	0.177
B	1.50	0.059
C	3.60	0.142
D	6.00	1.298
E	3.00	0.118



Standard Package

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