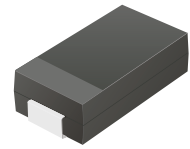


CDBC320-G Thru. CDBC3100-G

Reverse Voltage: 20 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

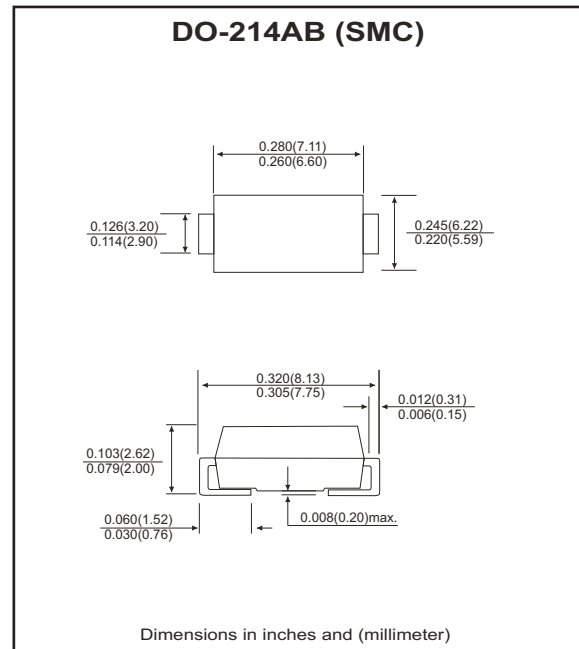


Features

- 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-214AB, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.21 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBC 320-G	CDBC 340-G	CDBC 360-G	CDBC 380-G	CDBC 3100-G	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 (CDBC320-G thru CDBC3100-G)

Fig.1 Reverse Characteristics

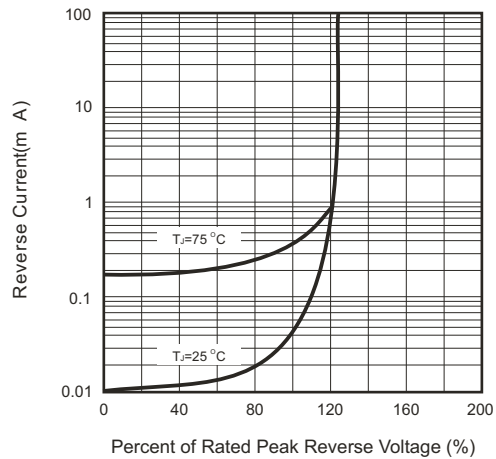


Fig.2 Forward Characteristics

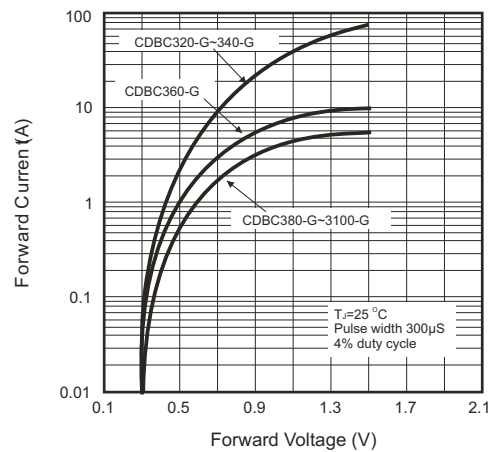


Fig.3 Junction Capacitance

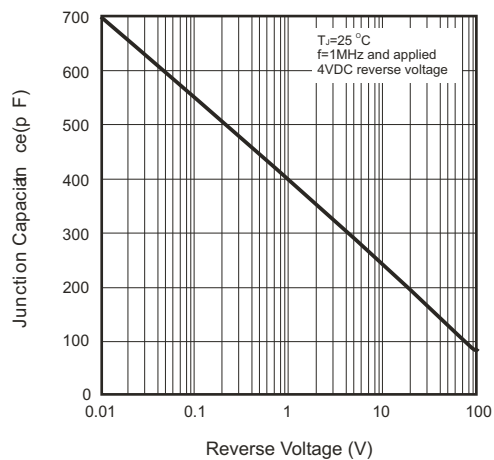


Fig.4 Current Derating Curve

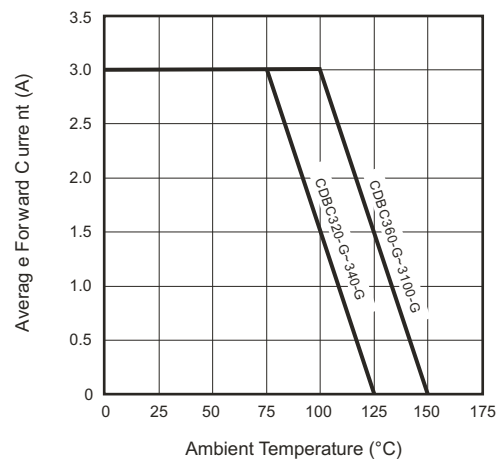
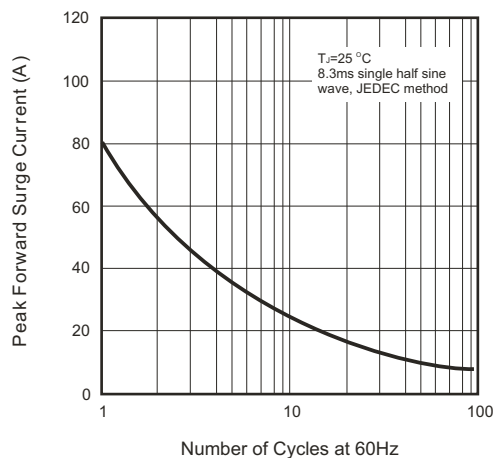
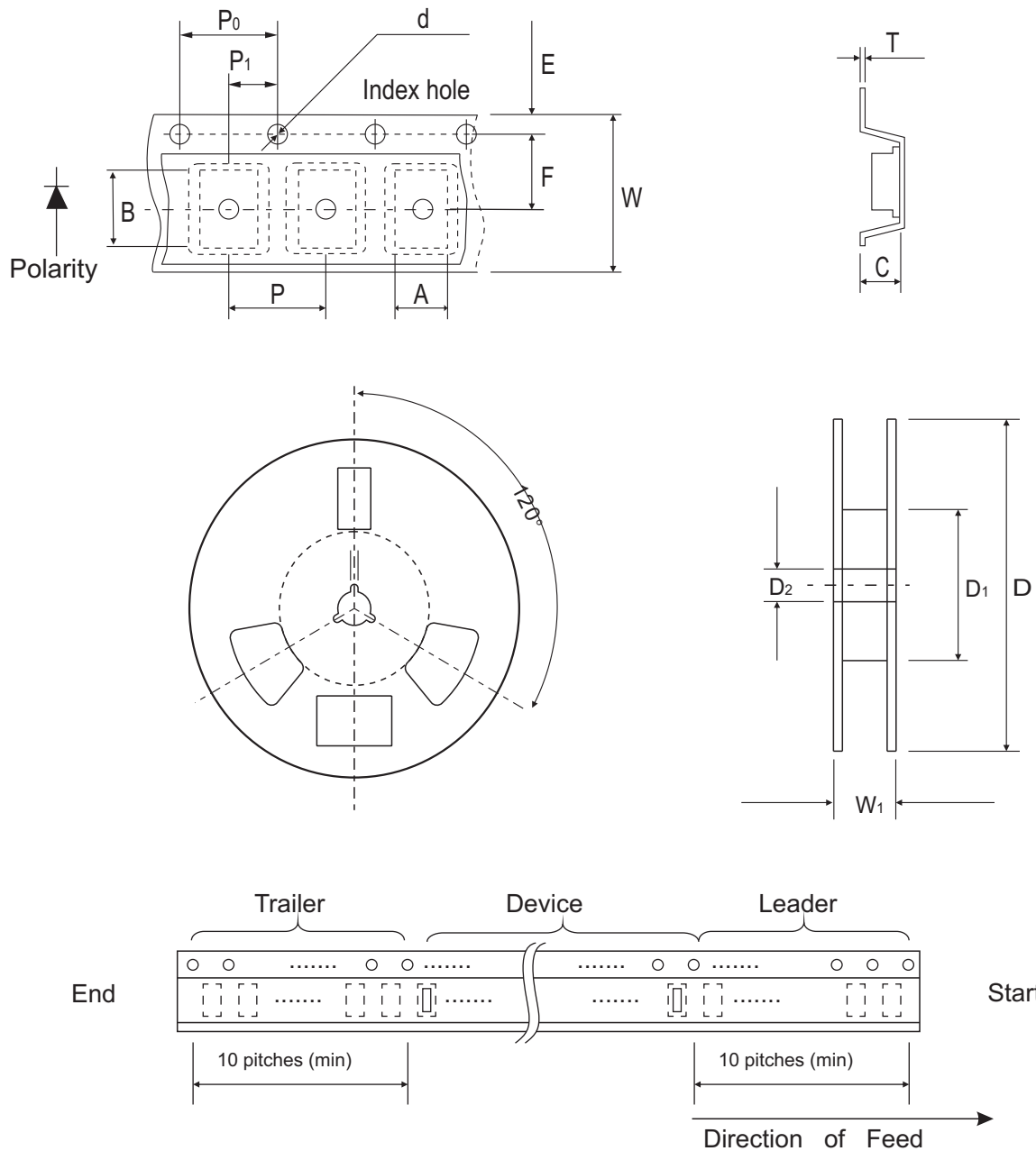


Fig.5 Non-repetitive Forward Surge Current



Reel Taping Specification

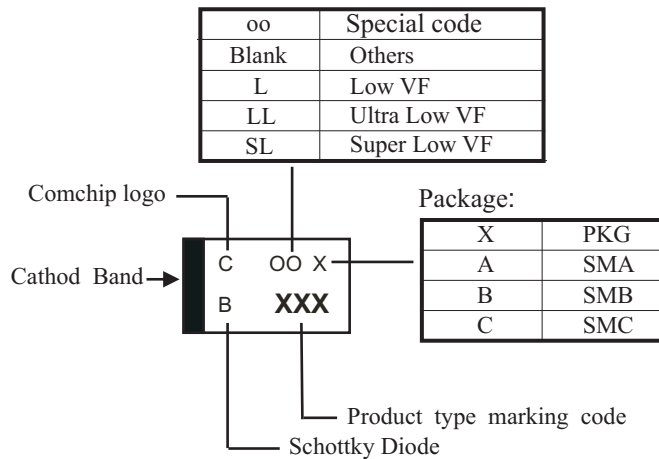


SMC (DO-214AB)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	6.30 (max)	8.60 (max)	2.90 (max)	1.50 ± 0.10	330	50.0 MIN.	13.5 ± 1.00
	(inch)	0.248 (max)	0.339 (max)	0.114 (max)	0.059 ± 0.004	12.99	1.969 MIN.	0.531 ± 0.039

SMC (DO-214AB)	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(mm)	1.75 ± 0.10	7.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	16.0 ± 0.20	22.4 (max)
	(inch)	0.689 ± 0.004	0.295 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.630 ± 0.008	0.882 (max)

Marking Code

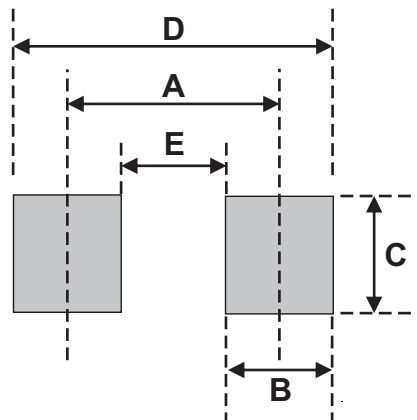
Part Number	Marking Code
CDBC320-G	320
CDBC340-G	340
CDBC360-G	360
CDBC380-G	380
CDBC3100-G	3100



xxx/xxxx = Product type marking code

Suggested PAD Layout

SIZE	DO-214AB(SMC)	
	(mm)	(inch)
A	6.20	0.244
B	1.60	0.063
C	4.80	0.189
D	7.80	0.307
E	4.60	0.181



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-214AB (SMC)	3,000	13

Mouser Electronics

Authorized Distributor

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[CDBC340-G](#) [CDBC380-G](#) [CDBC320-G](#) [CDBC360-G](#) [CDBC3100-G](#)