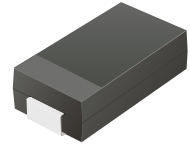


CDBC530HB-G Thru. CDBC5200HB-G

Reverse Voltage: 30 to 200 Volts

Forward Current: 5.0 Amp

RoHS Device

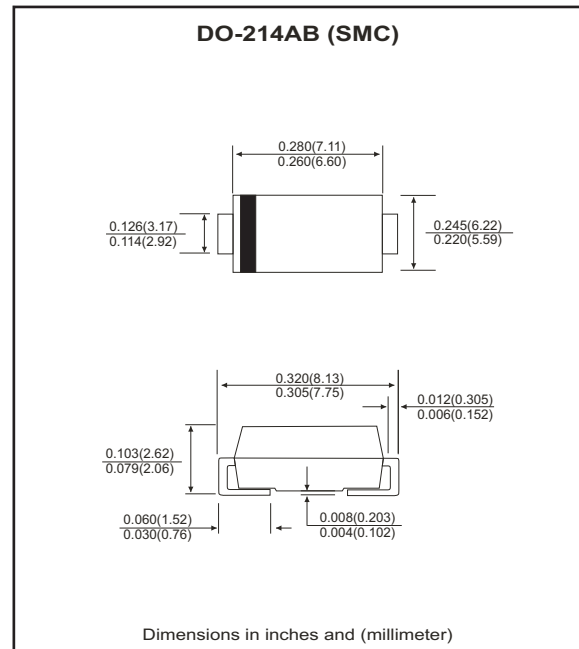


Features

- 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 530HB-G	CDBC 540HB-G	CDBC 540AHB-G	CDBC 550HB-G	CDBC 560HB-G	CDBC 5100HB-G	CDBC 5150HB-G	CDBC 5200HB-G	Units
Max. repetitive peak reverse voltage	V _{RRM}	30	40	45	50	60	100	150	200	V
Max. DC blocking voltage	V _{DC}	30	40	31.5	50	60	100	150	200	V
Max. RMS voltage	V _{RMS}	21	28	45	35	42	71	105	140	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	125								A
Max. Average Forward Current	I _(AC)	5.0								A
Max. Instantaneous Forward Voltage at 5.0A	V _F	0.67			0.71		0.78	0.84	0.86	V
Max. Reverse Current at T _A =25 °C Rated DC Blocking Voltage at T _A =125 °C	I _R	0.008 8.0					0.003 4.0			mA
Typical Thermal Resistance (Note 1)	R _{θJA} R _{θJL}	55 17								°C/W
Operation Junction Temperature	T _J	-65 to +175								°C
Storage temperature	T _{STG}	-65 to +175								°C

Notes:

1. Pulse test: 300 μ s pulse width, 1% duty cycle
2. P.C.B. mounted with 0.55x0.55" (14x14mm) copper Pad Areas
3. All diode types meet requirements of JEDEC standard for influence stability ($\pm 15KV$ air discharge; $\pm 8KV$ contact discharge)

RATING AND CHARACTERISTIC CURVES (CDBC530HB-G Thru CDBC5200HB-G)

Fig.1 Forward Current Derating Curve

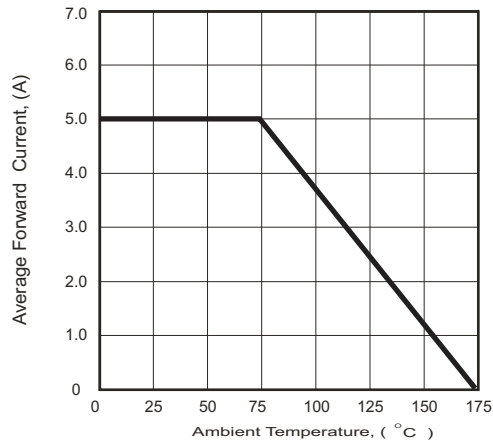


Fig.2 Typical Instantaneous Forward Characteristics

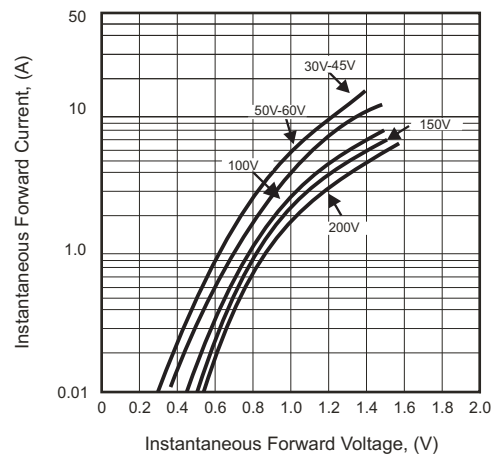


Fig.3 Typical Reverse Characteristics

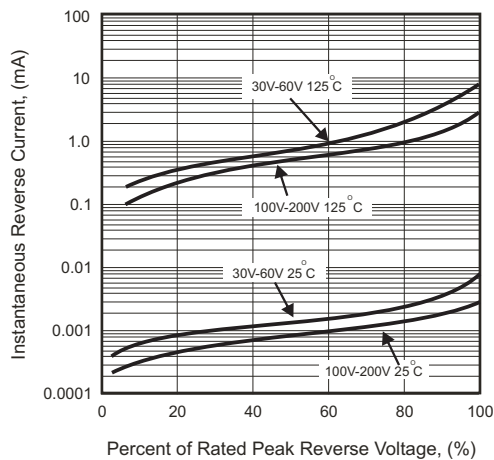
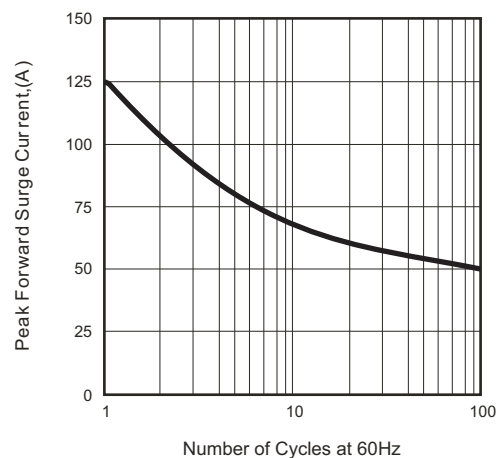
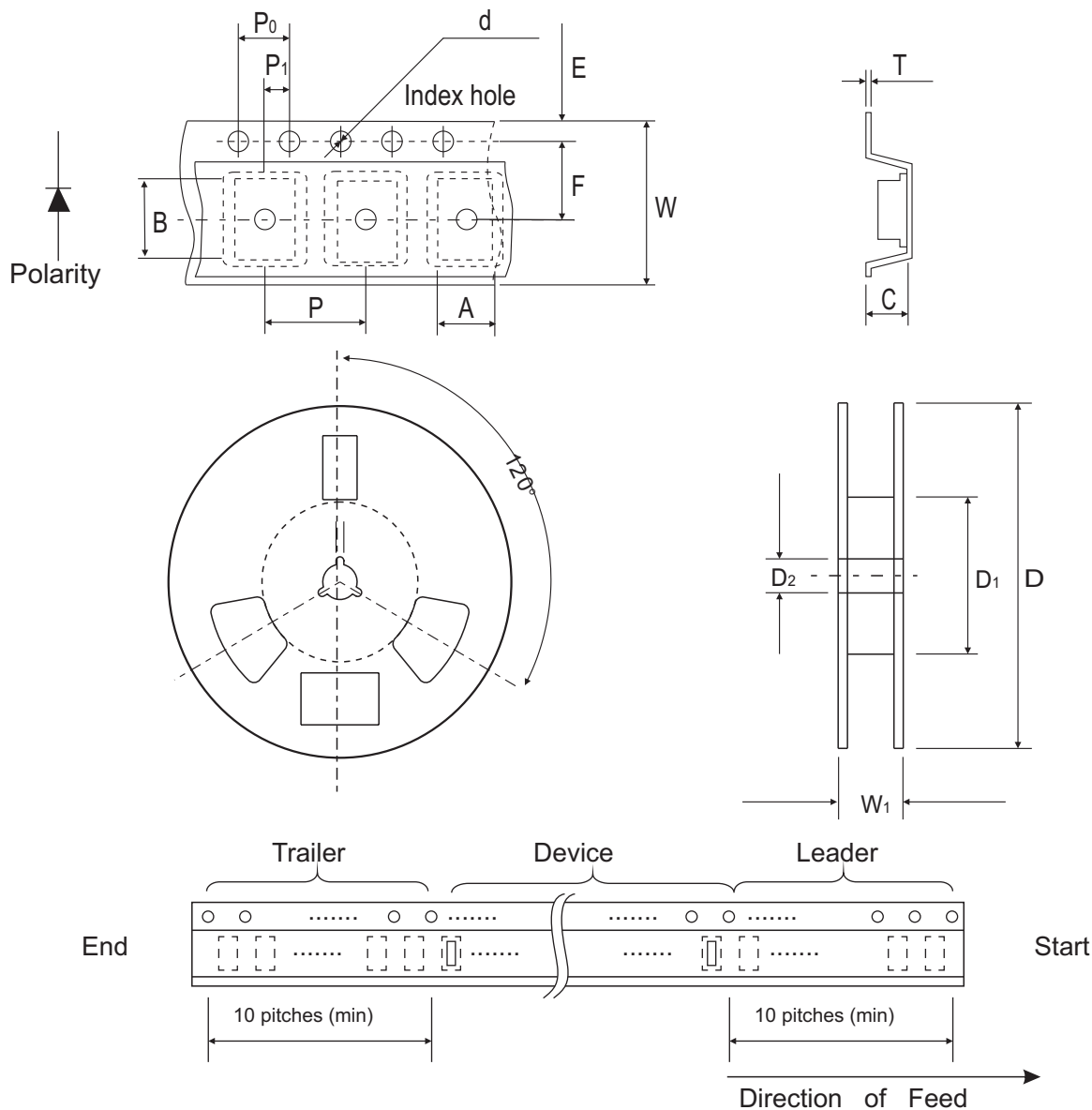


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



Reel Taping Specification



SMC (DO-214AB)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	6.00 ± 0.10	8.31 ± 0.10	2.54 ± 0.10	1.55 ± 0.05	330 ± 1.00	75 ± 1.00	13.5 ± 1.00
	(inch)	0.236 ± 0.004	0.327 ± 0.004	0.100 ± 0.004	0.061 ± 0.004	12.99 ± 0.039	2.95 ± 0.039	0.531 ± 0.039

SMC (DO-214AB)	SYMBOL	E	F	P	P0	P1	W	W1
	(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	22.7 ± 1.00
	(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	0.894 ± 0.039

Marking Code

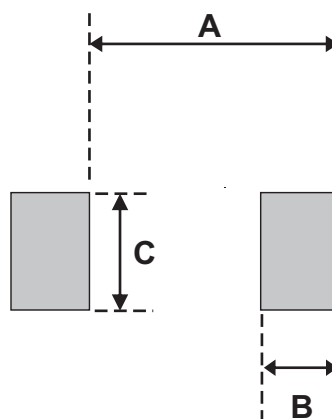
Part Number	Marking Code
CDBC530HB-G	530
CDBC540HB-G	540
CDBC540AHB-G	540A
CDBC550HB-G	550
CDBC560HB-G	560
CDBC5100HB-G	5100
CDBC5150HB-G	5150
CDBC5200HB-G	5200



xxxx = Product type marking code

Suggested PAD Layout

SIZE	DO-214AB(SMC)	
	(mm)	(inch)
A	4.83	0.190
B	1.78	0.070
C	3.18	0.125



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
DO-214AB (SMC)	3000	13