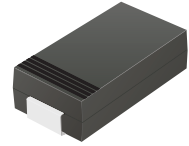


CDBC340H-HF

Reverse Voltage: 40 Volts
Forward Current: 3.0 Amp
RoHS Device
Halogen Free

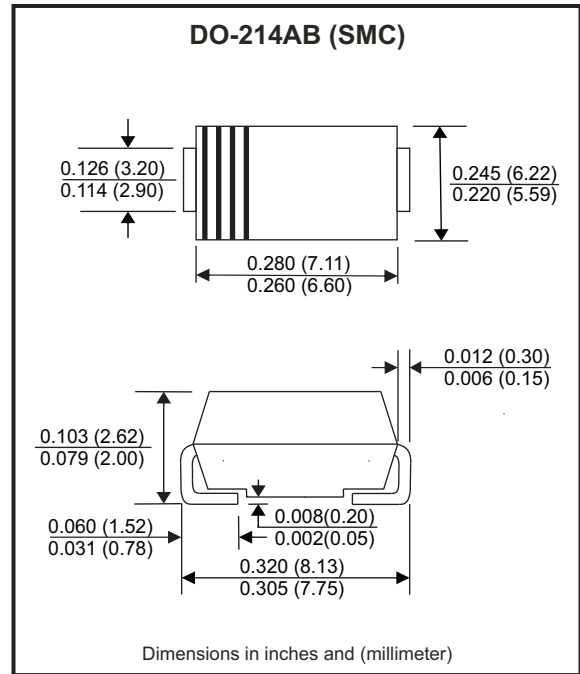


Features

- High surge and current capability.
- For use in low voltage, high frequency invertors free wheeling and polarity protection.
- Built-in strain relief.
- Silicon epitaxial planar chips.
- Metal silicon junction with guard ring.

Mechanical data

- Epoxy: UL94-V0 rated flame retardant.
- Case: Molded plastic, DO-214AB / SMC
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Mounting Position: Any.
- Weight: 0.25 gram (approx.)



Maximum Ratings and Electrical Characteristics

Ratings at Ta=25°C unless otherwise noted.

Parameter	Symbol	CDBC340H-HF	Units
Max. recurrent peak reverse voltage	VRRM	40	V
Max. DC blocking voltage	VDC	40	V
Max. RMS voltage	VRMS	28	V
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100	A
Max. average forward rectified current 0.2x0.2"(5.0x5.0mm) copper pad area, see Fig.1	I _{AV}	3.0	A
Max. forward voltage at 3.0A (Note 1)	V _F	0.55	V
Max. DC reverse current @TA=25°C at rated DC blocking voltage @TA=100°C	I _R	0.5 20.0	mA
Typical junction capacitance (Note 2)	C _J	250	pF
Typical thermal resistance (Note 3)	R _{θJA} R _{θJL}	55.0 17.0	°C/W
Junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Notes: 1. Pulse test: 300µs pulse width, 1% duty cycle.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V Volts.

3. Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2x0.2"(5.0x5.0mm) copper pad areas.

Company reserves the right to improve product design , functions and reliability without notice.

REV: A

RATING AND CHARACTERISTIC CURVES (CDBC340H-HF)

Fig.1 - Forward Current Derating Curve

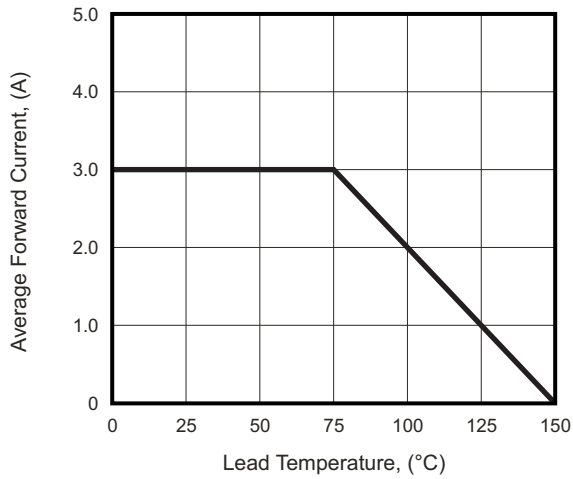


Fig.2 - Max. Non-repetitive Peak Forward Surge Current

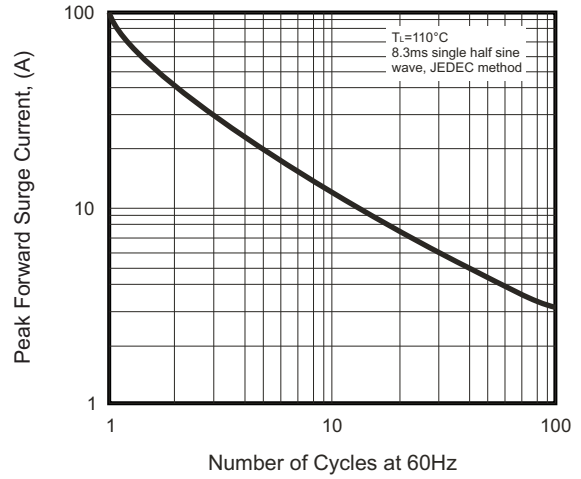


Fig.3 - Typical Instantaneous Forward Characteristics

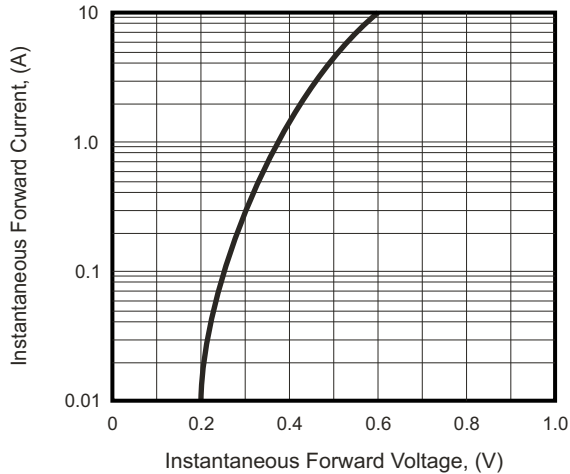


Fig.4 - Typical Reverse Characteristics

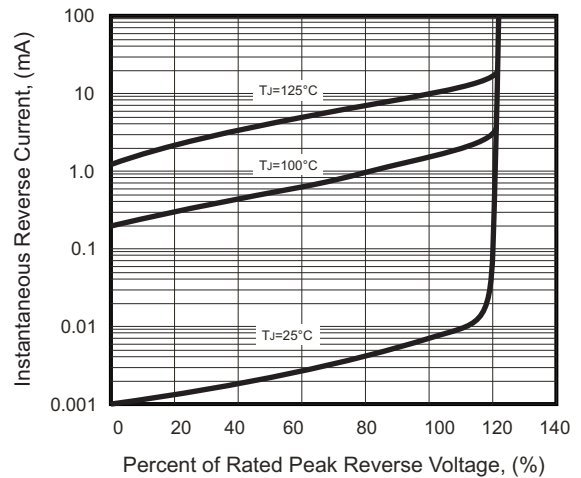
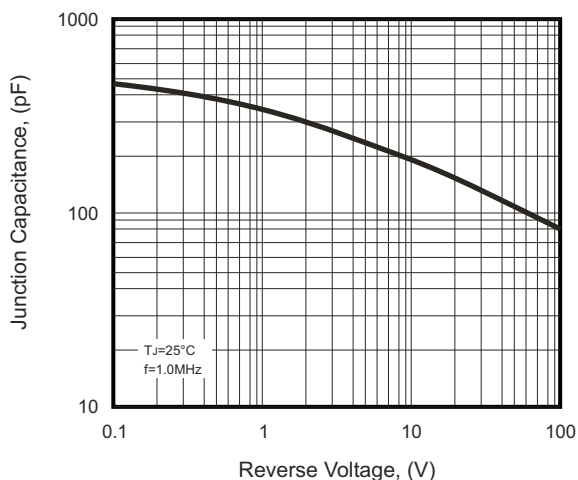


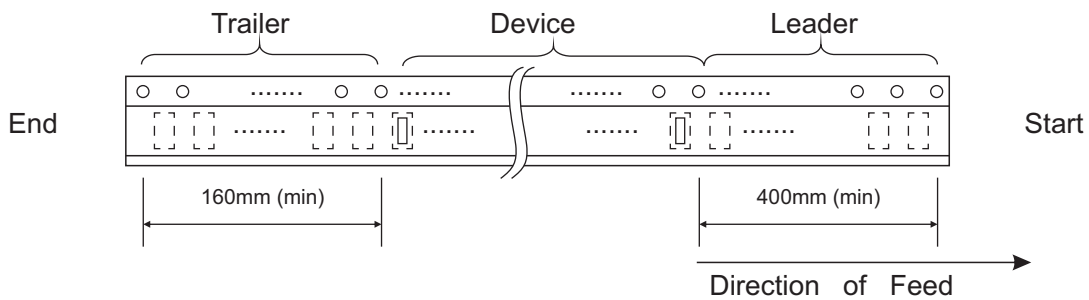
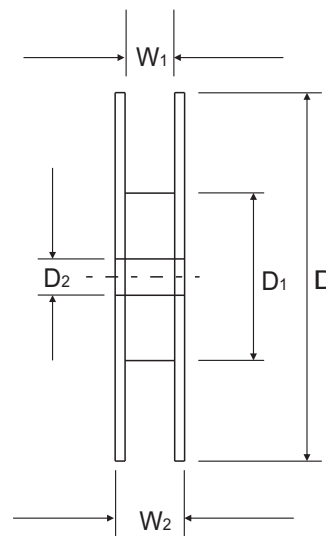
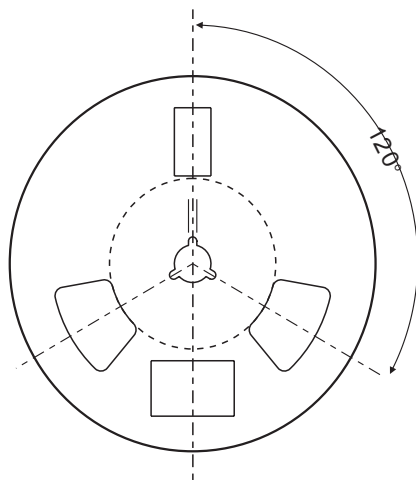
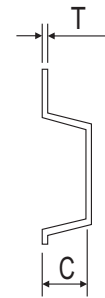
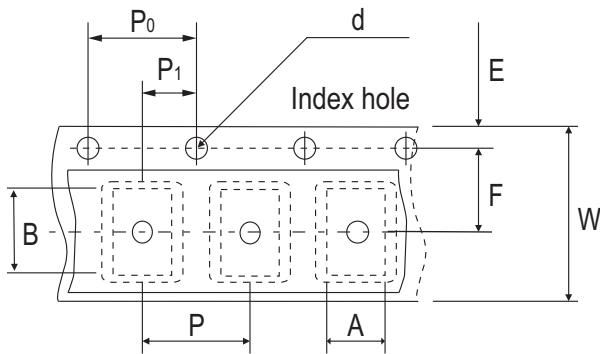
Fig.5 - Typical Junction Capacitance



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REV: A

Reel Taping Specification



SMC	SYMBOL	A	B	C	d	T	D	D1	D2
	(mm)	6.05	8.31	2.54	1.55	0.25	330.0	50.00 Min.	13.50
	(inch)	0.238	0.327	0.100	0.061	0.010	13.00	1.969 Min.	0.531

SMC	SYMBOL	E	F	P	P0	P1	W	W1	W2
	(mm)	1.75	7.50	8.00	4.00	2.00	16.00	18.40 Max.	22.40 Max.
	(inch)	0.069	0.295	0.315	0.157	0.079	0.630	0.724 Max.	0.882 Max.

Note: The tolerance of carrier tape and top cover is 0.2mm, the tolerance of reel is 2mm.

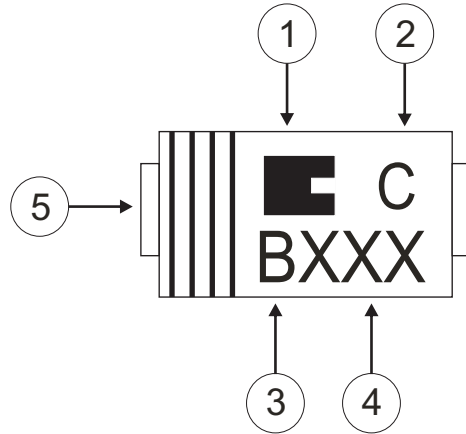
Company reserves the right to improve product design, functions and reliability without notice.

REV: A

Marking Code

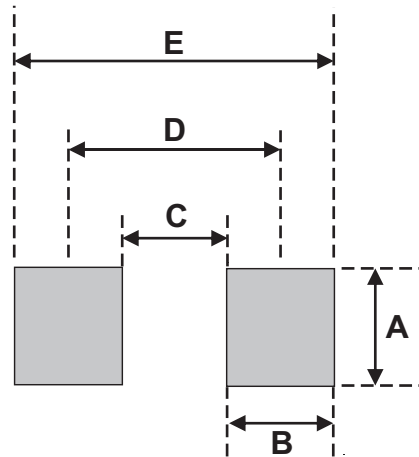
Part Number	Marking Code
CDBC340H-HF	340

1. : COMCHIP
2. C : SMC Package
3. B : Schottky Diode
4. XXX: Product type marking code
5. |||| : Cathod Band



Suggested PAD Layout

SIZE	DO-214AB(SMC)	
	(mm)	(inch)
A	3.30	0.130
B	2.50	0.098
C	4.40	0.173
D	6.90	0.272
E	9.30	0.366



Standard Packaging

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