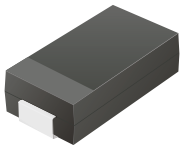
THE DATASHEET OF

CDBA340L-G

www.win-source.net 0086-755-83957316

CDBA340L-HF

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



Features

-Low Profile surface mount applications in order to optimize board space.

-Low power loss, high efficiency.

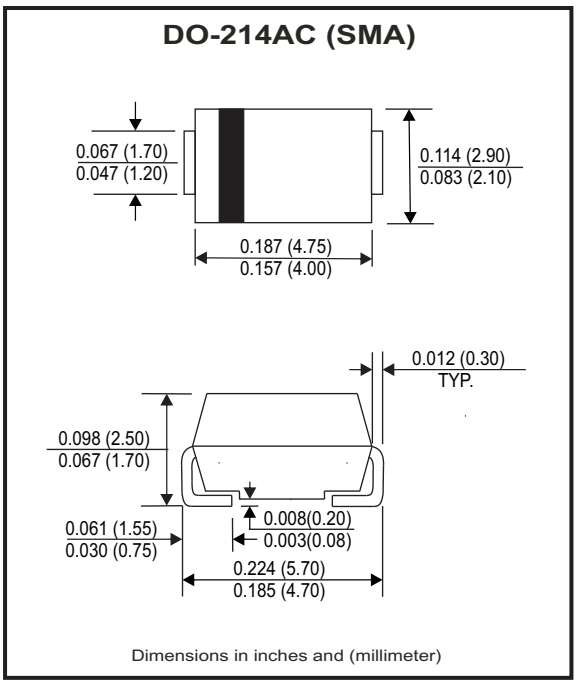
-High current capability, low forward voltage drop.

-High surge capability.

-Guard ring for overvoltage protection.

-Ultra high-speed switching.

-Silicon epitaxial planar chip,metal silicon junction.



Mechanical data

-Case: JEDEC DO-214AC / SMA, molded plastic.

-Epoxy: UL 94V-0 rate flame retardant.

-Terminals: Solder plated, Solderable per MIL-STD-750, method 2026.

-Polarity: Indicated by cathode band.

-Mounting position: Any.

-Weight: 0.055 grams

Maximum Ratings and Electrical Characteristics

Ratings at Ta=25°C unless otherwise noted.
Single phase, half wave, 60Hz, resistive or inductive loaded.
For capacitive load, derate current by 20% .

Parameter		Symbol	CDBA340L-HF	Unit
Max. Recurrent Peak Reverse Voltage		V_{RRM}	40	V
Max. RMS Voltage		V_{RMS}	28	V
Max. DC Blocking Voltage		V_{DC}	40	V
Max. Instantaneous Forward Voltage @3.0A, T_A=25°C		V_F	0.40	V
Max. Forward Rectified Current (See Fig.1)		I_O	3.0	A
Max. Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	80	A
Max. Reverse Current	$V_R=V_{RRM}$ T_J=25°C	I_R	1.0	mA
	$V_R=V_{RRM}$ T_J=100°C		20	
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	50	°C/W
Typical Diode Junction Capacitance(Note 2)		C_J	300	pF
Operating Temperature Range		T_J	-50 to +100	°C
Storage Temperature Range		T_{STG}	-50 to +150	°C

NOTES:
1. Thermal resistance from junction to ambient.
2. F=1MHz and applied 4V DC reverse Voltage.

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

RATING AND CHARACTERISTIC CURVES (CDBA340L-HF)

Fig.1 - Typical Forward Current Derating Curve

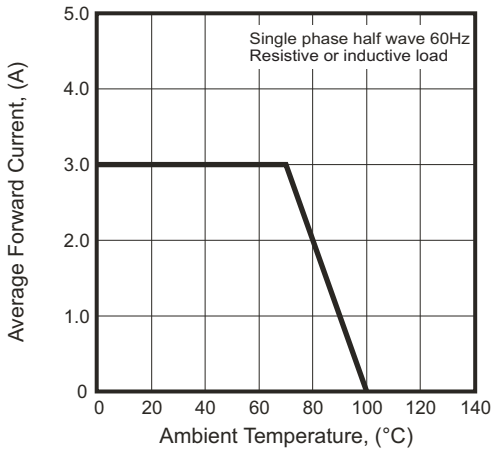


Fig.2 - Typical Forward Characteristics

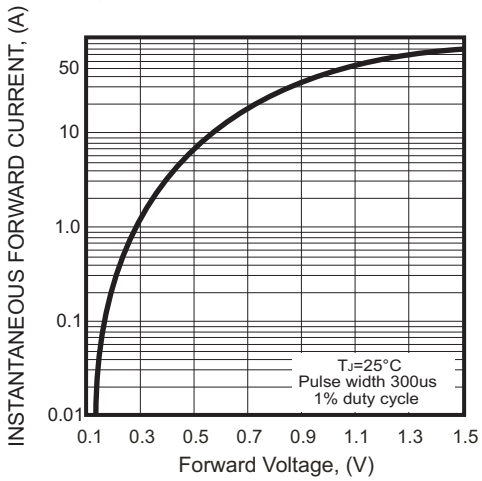


Fig.3 - Maximum Non-repetitive Forward Surge Current

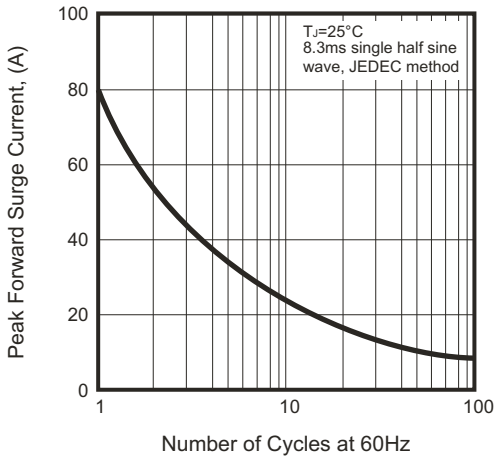


Fig.4 - Typical Junction Capacitance

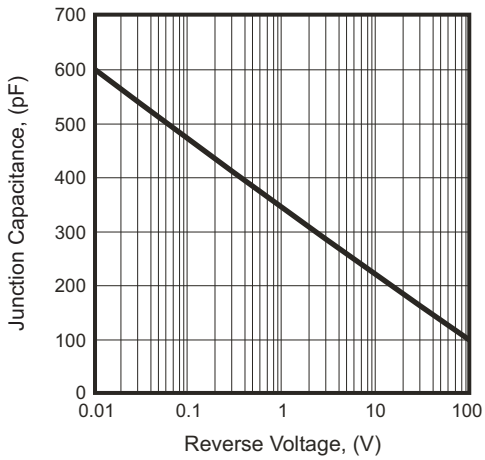
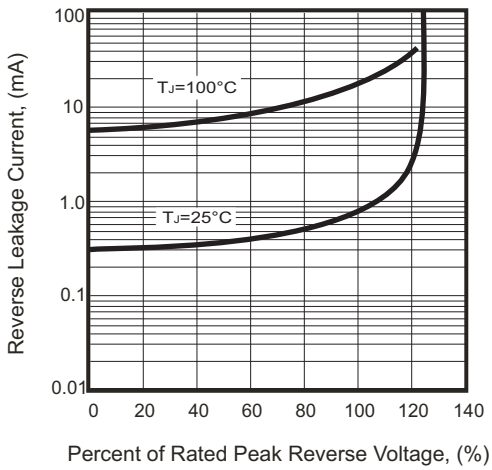
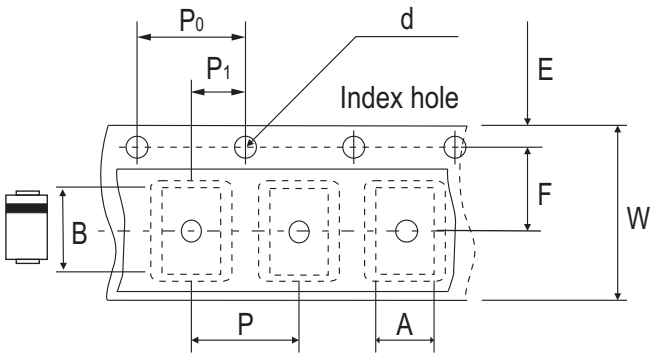


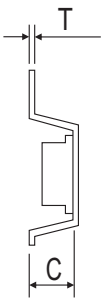
Fig.5 - Typical Reverse Characteristics

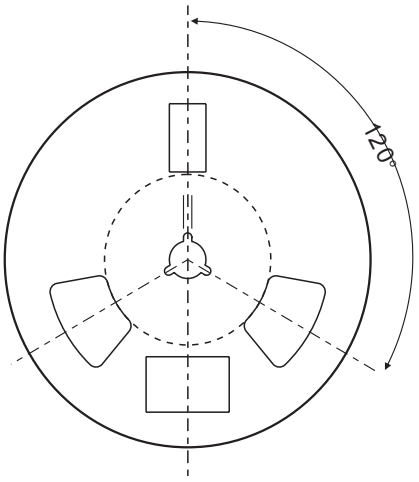


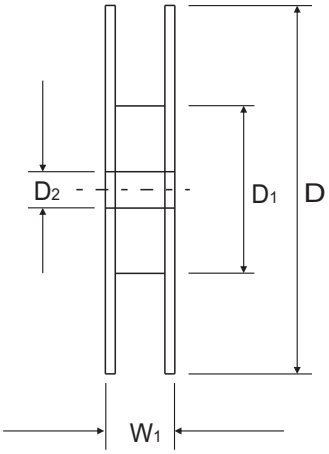
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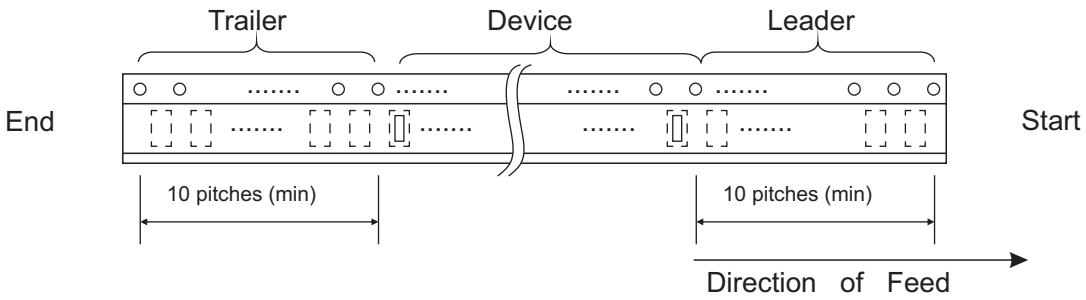
Reel Taping Specification











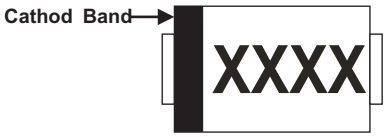
	SYMBOL	A	B	C	d	D	D1	D2
DO-214AC (SMA)	(mm)	2.70 ± 0.10	5.30 ± 0.10	2.66 ± 0.10	1.50 ± 0.10	330 ± 2.00	62.0 MIN.	13.50 ± 0.50
	(inch)	0.106 ± 0.004	0.209 ± 0.004	0.105 ± 0.004	0.059 ± 0.004	12.99 ± 0.079	2.441 MIN.	0.531 ± 0.020

	SYMBOL	E	F	P	P0	P1	T	W	W1
DO-214AC (SMA)	(mm)	1.75 ± 0.10	5.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.60 ± 0.10	12.0 ± 0.30	18.40 ± 1.00
	(inch)	0.069 ± 0.004	0.217 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.236 ± 0.004	0.472 ± 0.012	0.724 ± 0.039

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Marking Code

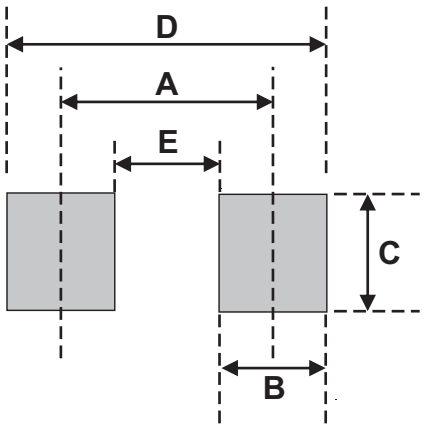
Part Number	Marking Code
CDBA340L-HF	SL34



XXXX = Product type marking code

Suggested PAD Layout

SIZE	DO-214AC (SMA)	
	(mm)	(inch)
A	4.00	0.157
B	2.50	0.100
C	1.70	0.068
D	6.50	0.256
E	1.50	0.060



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-214AC (SMA)	5,000	13

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