

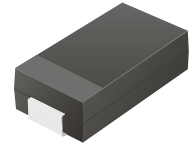
CDBA220LL-HF Thru. CDBA240LL-HF

Reverse Voltage: 20 to 40 Volts

Forward Current: 2.0 Amp

RoHS Device

Halogen free

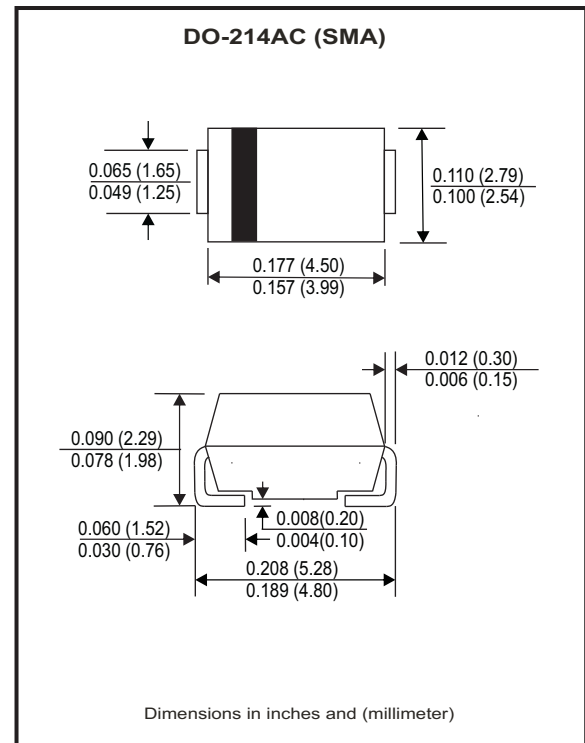


Features

- Low Profile surface mount applications in order to optimize board space.
- Low power loss, high efficiency.
- Hight current capability, low forward voltage drop.
- Hight surge capability.
- Guarding 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	CDBA220LL-HF	CDBA230LL-HF	CDBA240LL-HF	Unit
Max. Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	V
Max. RMS Voltage		V _{RMS}	14	21	28	V
Max. DC Blocking Voltage		V _{DC}	20	30	40	V
Max. Instantaneous Forward Voltage @2.0A, T _A =25°C		V _F	0.33	0.35		V
Max. Forward Rectified Current (See Fig.1)		I _O	2.0			A
Max. Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	70			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 _{θJA}	70			°C/W
Typical Diode Junction Capacitance(Note 2)		C _J	160			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.

REV: A

RATING AND CHARACTERISTIC CURVES (CDBA220LL-HF thru CDBA240LL-HF)

Fig.1- Typical Forward Current Derating Curve

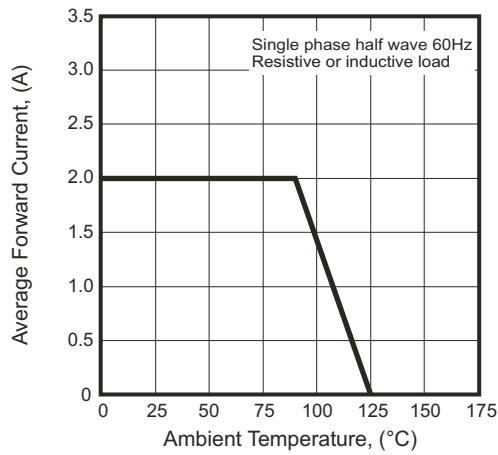


Fig.2- Typical Forward Characteristics

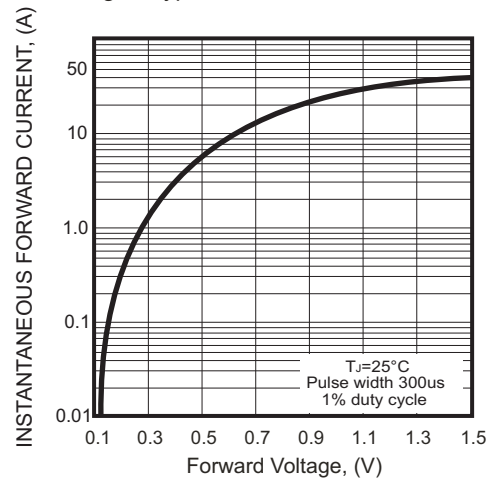


Fig.3- Maximum Non-repetitive Forward Surge Current

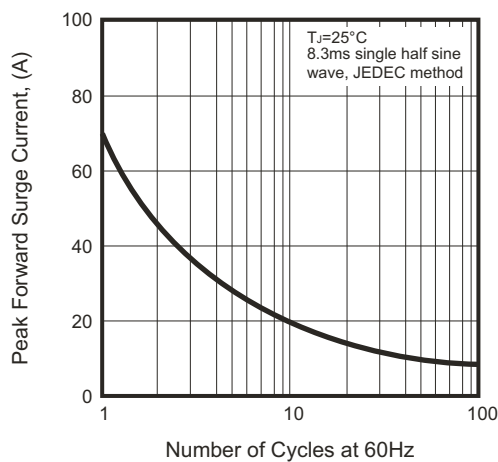


Fig.4- Typical Junction Capacitance

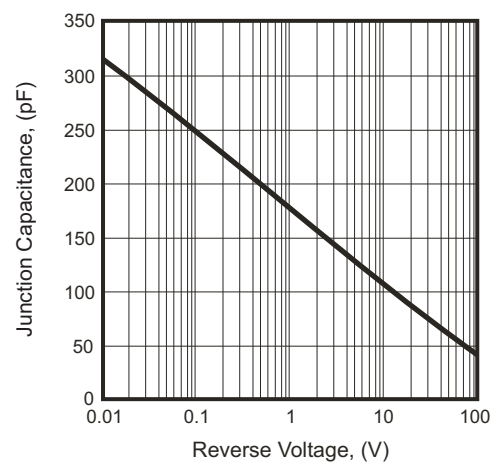
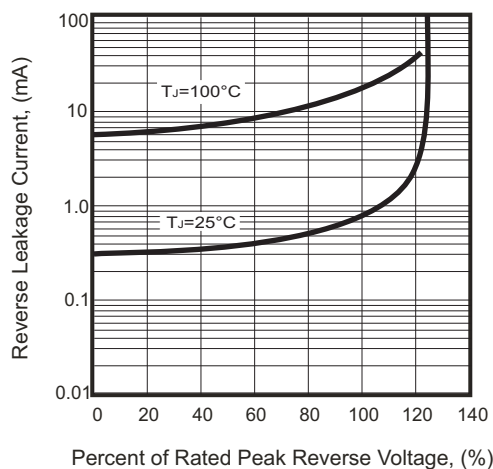
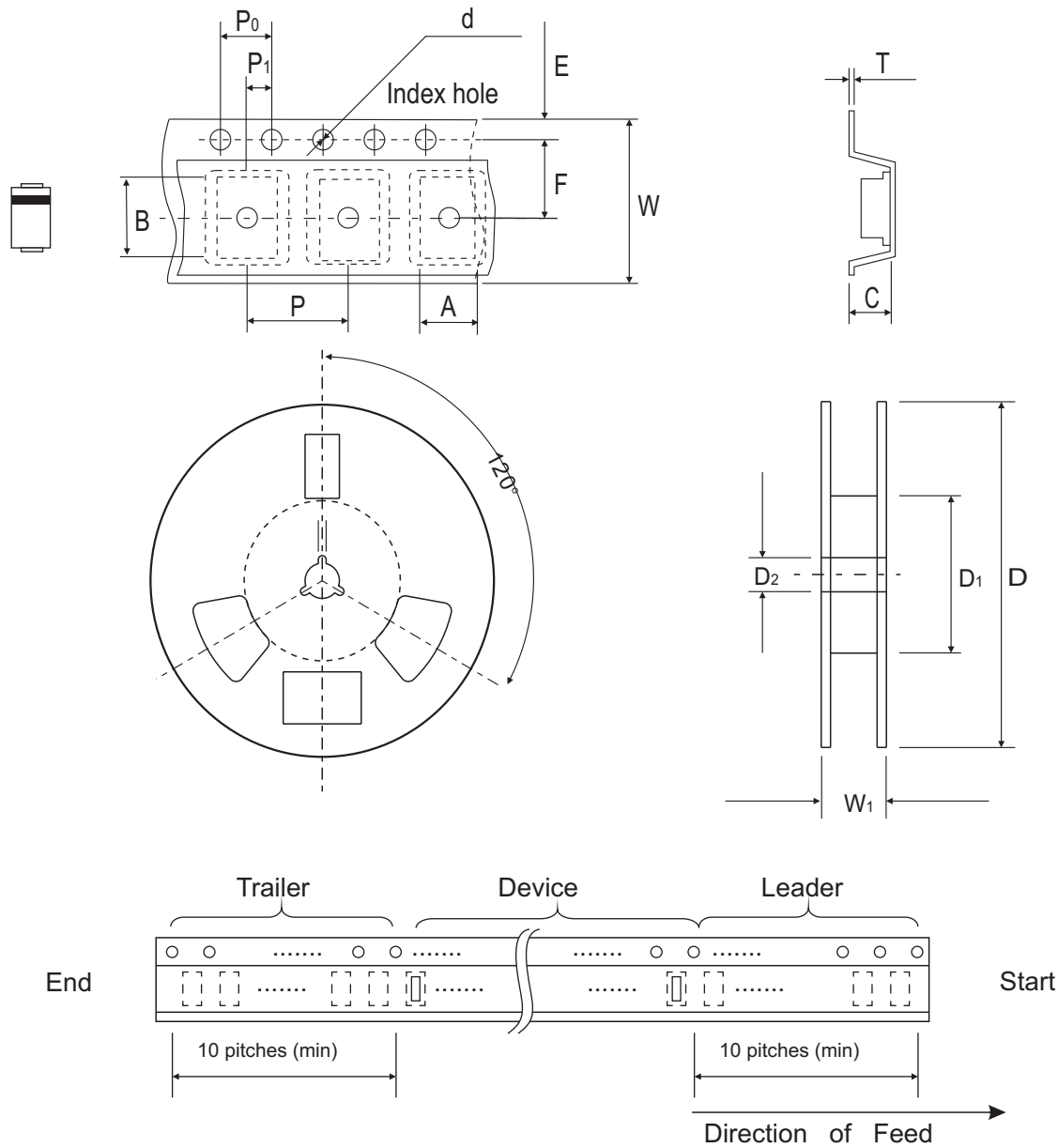


Fig.5- Typical Reverse Characteristics



Reel Taping Specification

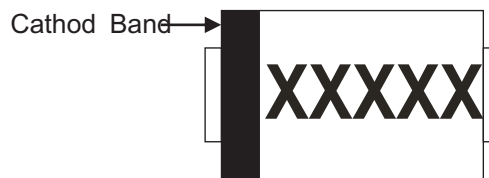


DO-214AC (SMA)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	2.70 MAX.	5.30 MAX.	2.66 MAX.	1.50 ± 0.10	330 ± 2.00	50.0 MIN.	13.50 ± 1.00
	(inch)	0.106 MAX.	0.209 MAX.	0.105 MAX.	0.059 ± 0.004	12.99 ± 0.079	1.969 MIN.	0.531 ± 0.039

DO-214AC (SMA)	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	5.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.60 MAX.	12.0 ± 0.30	18.4 MAX.
	(inch)	0.069 ± 0.004	0.217 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.024 MAX.	0.472 ± 0.012	0.724 MAX.

Marking Code

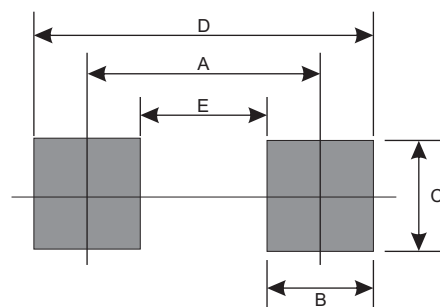
Part Number	Marking Code
CDBA220LL-HF	SLL22
CDBA230LL-HF	SLL23
CDBA240LL-HF	SLL24



XXXXXX = Product type marking code

Suggested PAD Layout

SIZE	DO-214AC (SMA)	
	(mm)	(inch)
A	4.00	0.157
B	2.50	0.098
C	1.70	0.067
D	6.50	0.256
E	1.50	0.059



Standard Package

Case Type	REEL PACK			
	REEL (pcs)	Reel / Carton	CARTON (pcs)	Reel Size (inch)
DO-214AC (SMA)	5,000	10	50,000	13