SMD Schottky Barrier Rectifier

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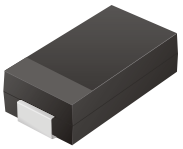
CDBA320L Thru CDBA340LL

Reverse Voltage: 20 - 40 Volts
Forward Current: 3.0 Amp



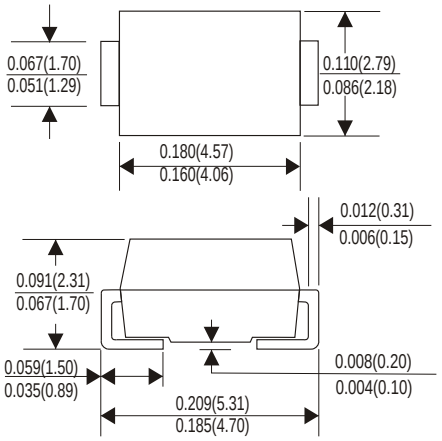
Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Super low forward voltage drop

Mechanical data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.063 grams

DO-214AC (SMA)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characterics

TYPE NUMBER	CDBA320L	CDBA320LL	CDBA340L	CDBA340LL	UNITS
Maximum Recurrent Peak Reverse Voltage	20	20	40	40	V
Maximum RMS Voltage	14	14	28	28	V
Maximum DC Blocking Voltage	20	20	40	40	V
Maximum Average Forward Rectified Current	3.0				A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	90				A
Maximum Instantaneous Forward Voltage at 3.0A	0.42	0.38	0.45	0.4	V
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 80°C	1.5 60				mA
Operating Temperature Range T_J	-25 to +80				°C
Storage Temperature Range T_{STG}	-50 to +125				°C

Rating 25 C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Note 1: Thermal resistance from junction to ambient and junction to to lead P.C.B. Mounted on 0.2 x 0.2 copper pad areas

Rating and Characteristic Curves (CDBA320L Thru CDBA340LL)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

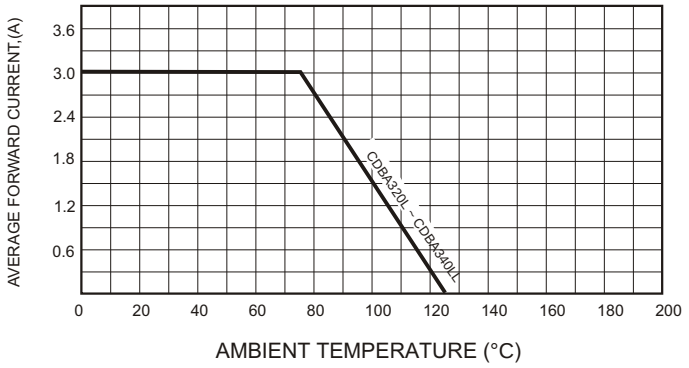


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

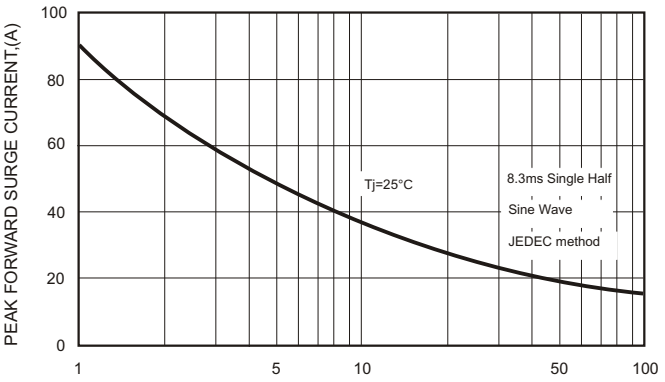


FIG.3-TYPICAL JUNCTION CAPACITANCE

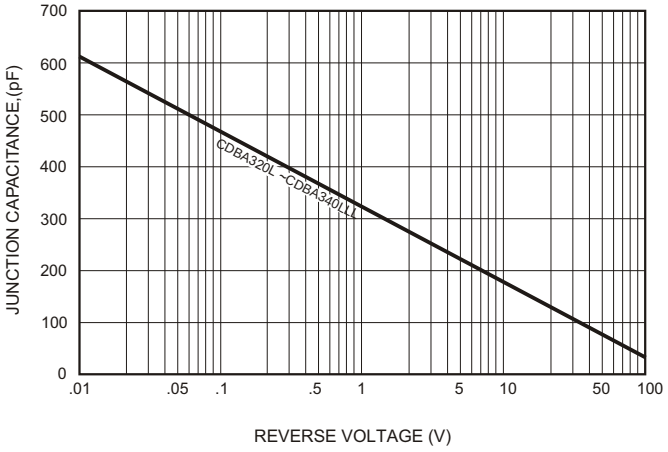
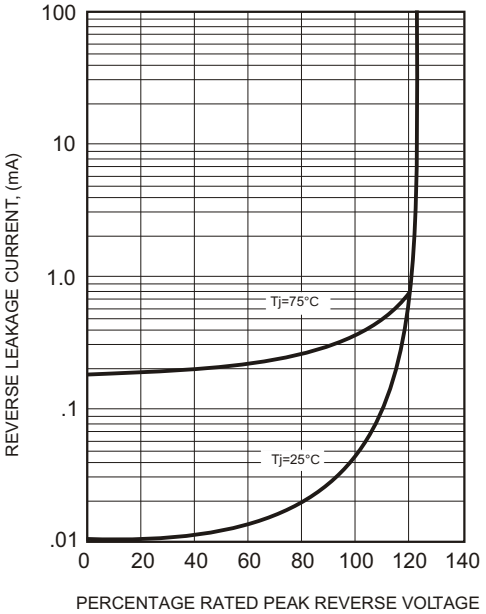


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



Rating and Characteristic Curves (CDBA320L Thru CDBA340LL)

FIG. 5 (For CDBA320L)

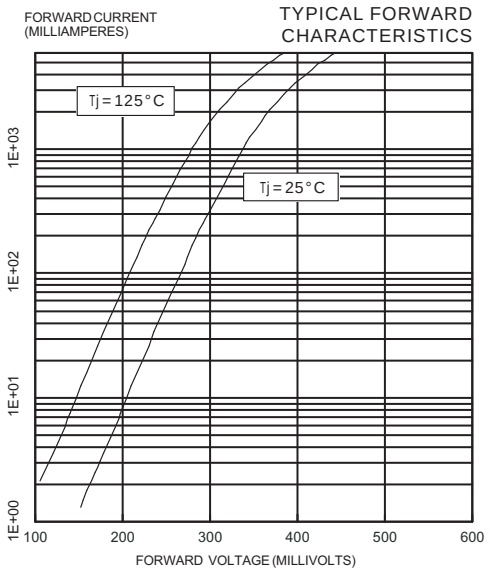


FIG. 6 (For CDBA320LL)

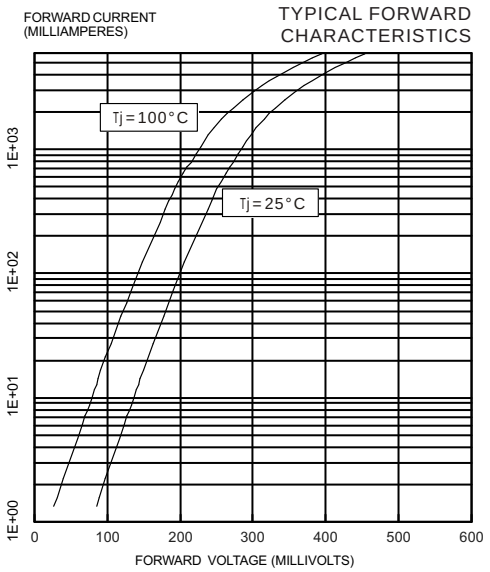


FIG. 7 (For CDBA340L)

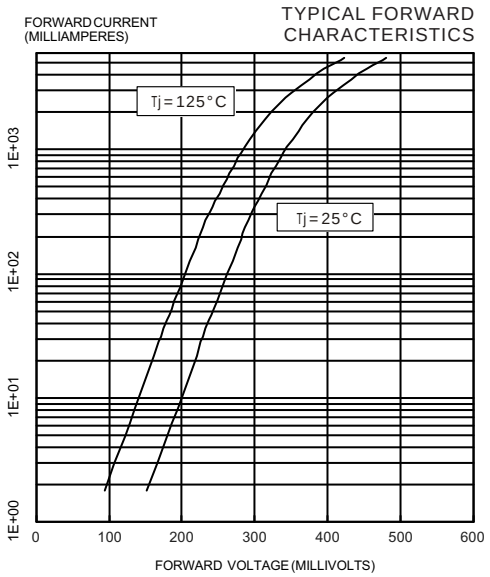


FIG. 8 (For CDBA340LL)