

CDBW120 THRU CDBW1100

Voltage Range 20 to 100V

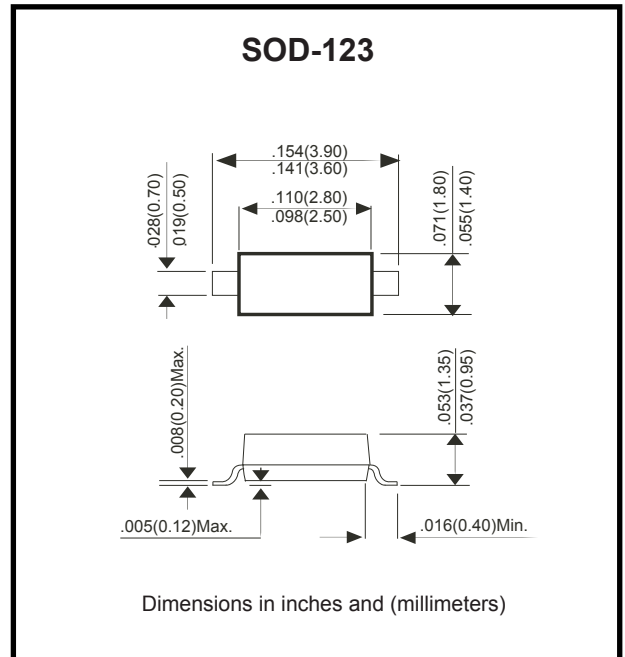
Current 1.0 Ampere

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Case: Molded plastic SOD-123
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.01 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| | SYBMOL | CDBW120 | CDBW140 | CDBW160 | CDBW180 | CDBW1100 | UNIT |
|---|----------|---------------------------|---------|---------|---------|----------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 20 | 40 | 60 | 80 | 100 | V |
| Maximum RMS Voltage | VRMS | 14 | 28 | 42 | 56 | 70 | V |
| Maximum DC Blocking Voltage | VDC | 20 | 40 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectified Current TL=100°C | I(AV) | 1.0 | | | | | A |
| Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 30 | | | | | A |
| Maximum Instantaneous Forward Voltage @ 1.0 A | VF | 0.5 | | 0.7 | | 0.85 | V |
| Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=100°C | IR | 0.5 | | | | | mA |
| | | 10 | | 5.0 | | | |
| Typical junction Capacitance (Note 1) | CJ | 120 | | | | | pF |
| Operating Junction and Storage Temperature Range | TJ, TSTG | -55 to +125 / -55 to +150 | | | | | °C |

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATINGS AND CHARACTERISTIC CURVES CDBW120 THRU CDBW1100

FIG.1 - FORWARD CURRENT DERATING CURVE

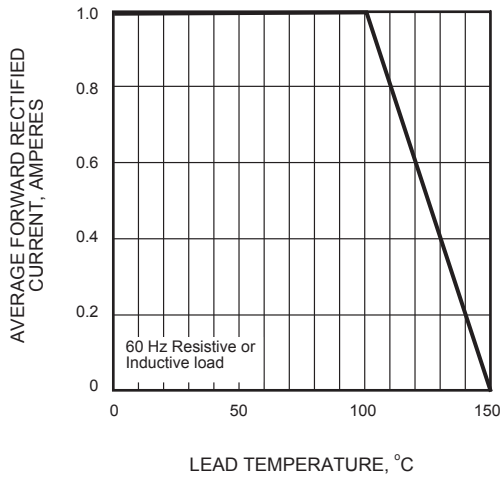


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

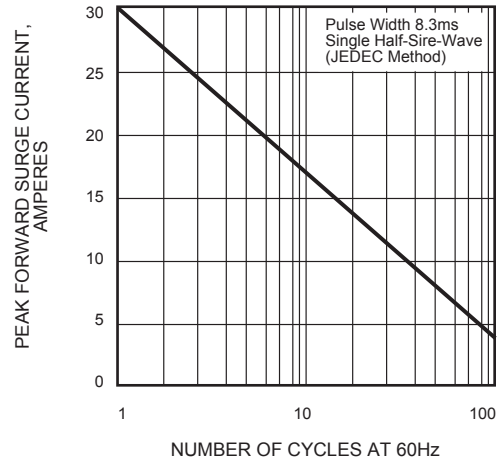


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

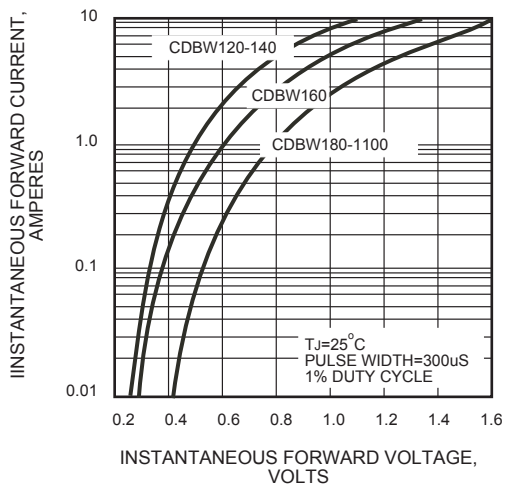


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

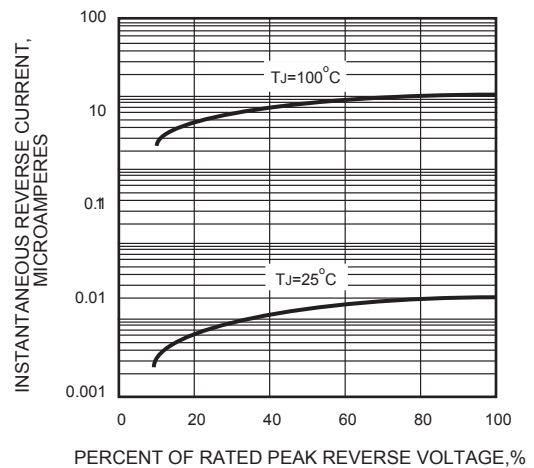


FIG.5 - TYPICAL JUNCTION CAPACITANCE

