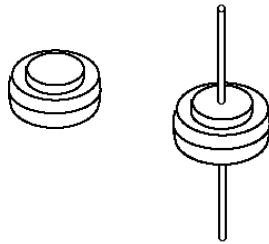


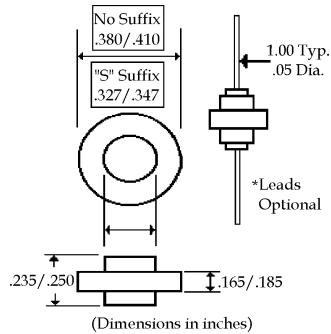
FR3523~3543

**Descriptions**



**BUTTON DIODE**

**Mechanical Dimension**



Dimensions in inches and (millimeters)

**Features**

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

**Mechanical Data**

- ★ Case: OFC Heat Sink
- ★ Encap: Epoxy Sealed Rated  
UL94V-0
- ★ Weight: 0.62gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

|   | SYMBOL   | FR3523      | FR3535 | FR3543 | UNIT     |
|---|----------|-------------|--------|--------|----------|
| Maximum Peak Repetitive Reverse Voltage@Irrm=100mA  | VRRM     | 20~26       | 24-32  | 38-47  | V        |
| Maximum RMS Voltage   | VRMS     | 14~18       | 17~23  | 26~33  | V        |
| Maximum DC Blocking Voltage(TA=25°C)  | VB       | 20~26       | 24~32  | 38~47  | V        |
| Maximum Average Forward Current Io@Tc=150°C<br>60 Hz, resistive or inductive load                       | I(AV)    | 35          |        |        | A        |
| Peak Forward Surge Current, 8.3ms single<br>Half sine-wave superimposed on rated load<br>(JEDEC method) | IFSM     | 400         |        |        | A        |
| Maximum Inst. Forward Voltage Drop,<br>IF at 80Amp  | VF       | 1.2         |        |        | V        |
| Maximum DC Reverse Current (VB)@TJ=25°C<br>At Rated DC Blocking Voltage (VB)@TJ=150°C                   | IR       | 0.2<br>200  |        |        | uA<br>uA |
| Operating Junction and Storage Temperature Range  | TJ, TSTG | -65 to +175 |        |        | °C       |

**RATINGS AND CHARACTERISTIC CURVES FR3523 ~FR3543**

FIG.1 - FORWARD CURRENT DERATING CURVE

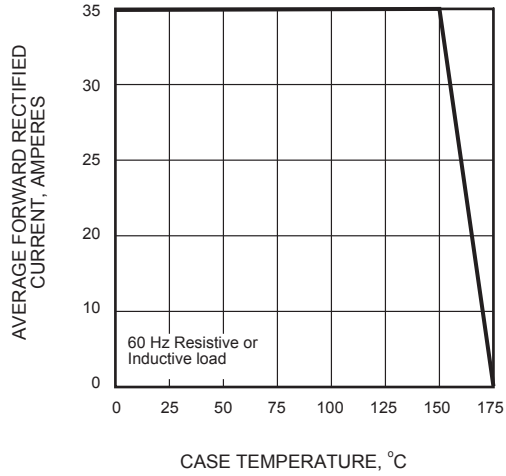


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

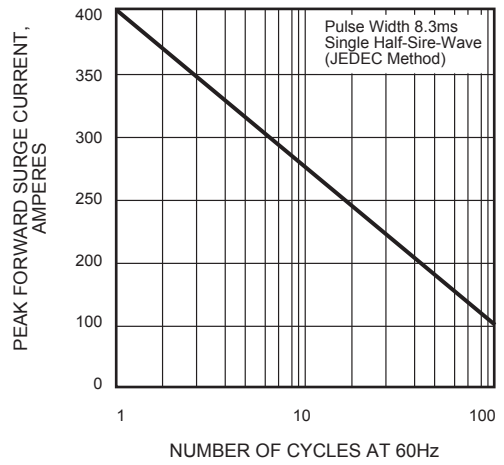


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

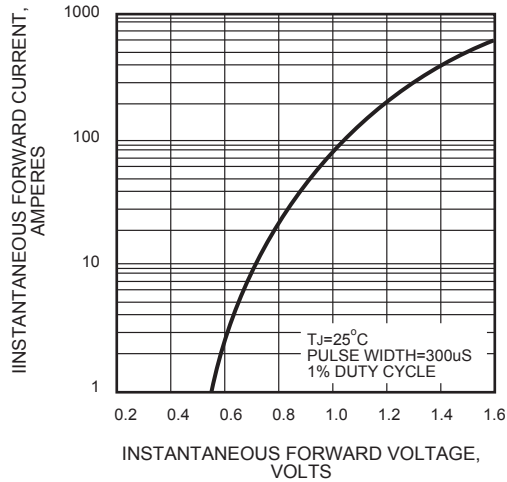


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

