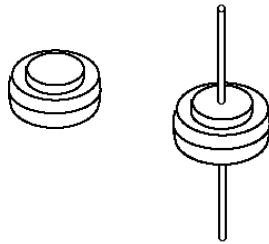


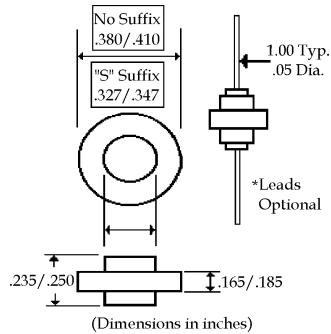
FR5023~5043

**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	FR5023	FR5035	FR5043	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 60 Hz, resistive or inductive load	I(AV)	50			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	600			A
Maximum Inst. Forward Voltage Drop, IF at 80Amp	VF	1.3			V
Maximum DC Reverse Current (VB)@TJ=25°C At Rated DC Blocking Voltage (VB)@TJ=150°C	IR	0.2 200			uA uA
Operating Junction and Storage Temperature Range	TJ, TSTG	-65 to +175			°C

**RATINGS AND CHARACTERISTIC CURVES FR5023 ~FR5043**

FIG.1 - FORWARD CURRENT DERATING CURVE

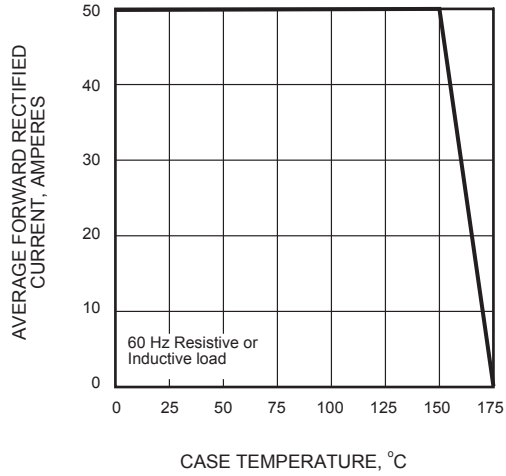


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

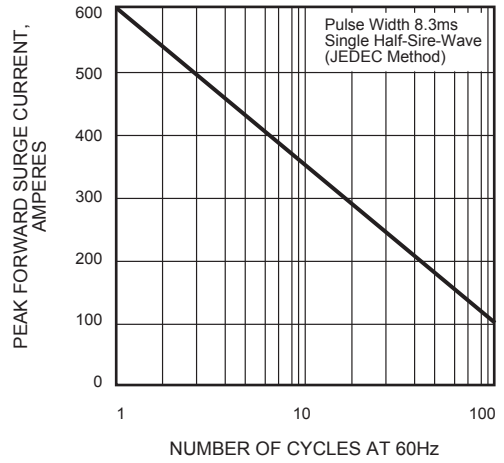


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

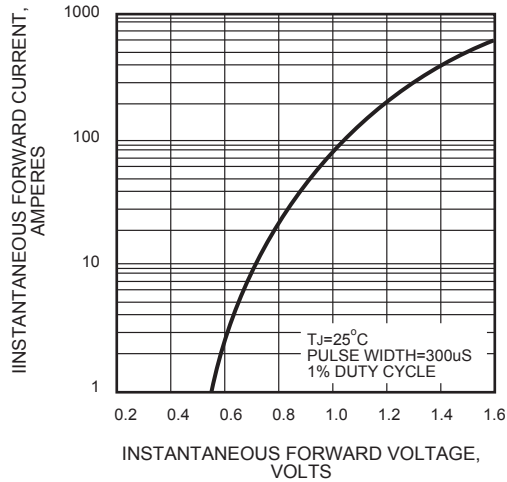


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

