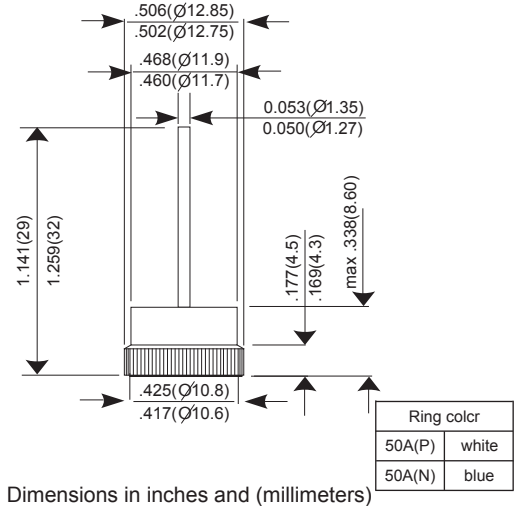


**Features**

- ★ 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
- ★ Chips Passivated with Polyimide Process
- ★ P type Plastic Ring -- White color
- ★ N type Plastic Ring -- Blue color
- ★ Weight: 6.70 gram



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

CHARACTERISTIC	SYMBOL	PBFR5018JP/N	PBFR5020JP/N	PBFR5030JP/N	UNIT
Maximum Peak Repetitive Reverse Voltage@Irrm=100mA	VRRM	19-25	24-28	34-40	V
Maximum RMS Voltage	VRMS	16	20	28	V
Maximum DC Blocking Voltage(TA=25°C)	VB	16	20	28	V
Maximum Average Forward Current Io@Tc=175°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 100Amp	VF	1.05			V
Maximum DC Reverse Current (VB)@TJ=25°C At Rated DC Blocking Voltage (VB)@TJ=175°C	IR	0.2 150			uA uA
Operating Junction and Storage Temperature Range	TJ, TSTG	-40 to +225			°C

**RATINGS AND CHARACTERISTIC CURVES PBFR5018JP/N THRU PBFR5030JP/N**

FIG.1 - FORWARD CURRENT DERATING CURVE

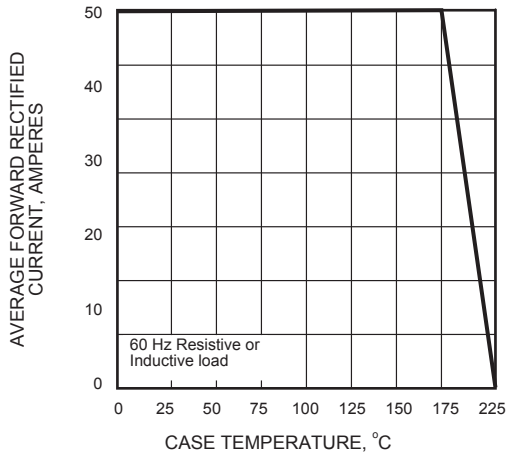


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

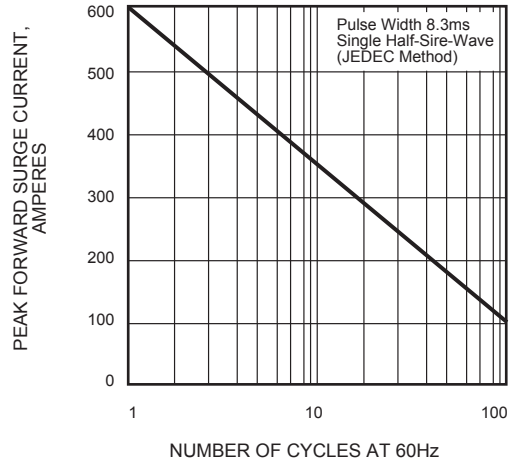


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

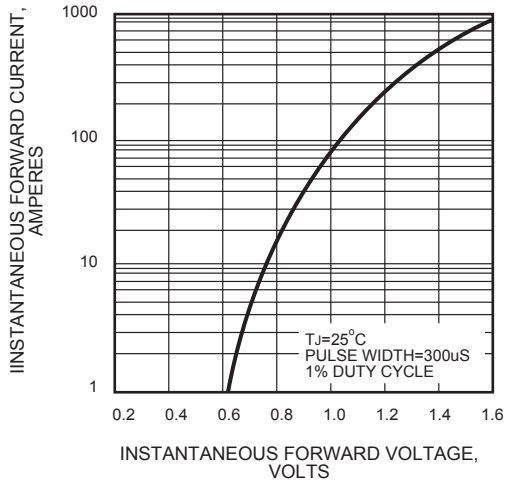


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

