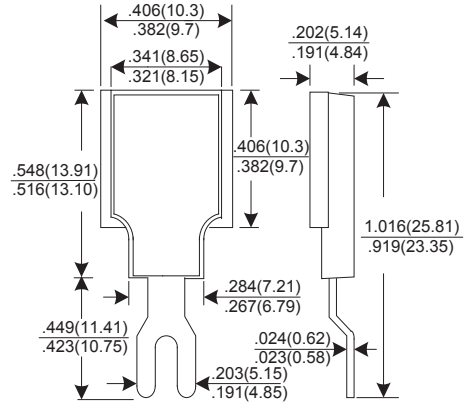


## Mechanical Dimensions

### Description



### BLOCK

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: 2.82 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

	SYMBOL	BYFR3502	BYFR3504	BYFR3506	UNIT
Maximum Peak Repetitive Reverse Voltage@I <sub>rrm</sub> =10uA	V <sub>RRM</sub>	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	V
Maximum DC Blocking Voltage(T <sub>A</sub> =25°C)	V <sub>B</sub>	200	400	600	V
Maximum Average Forward Current I <sub>o</sub> @T <sub>c</sub> =150°C 60 Hz, resistive or inductive load	I <sub>(AV)</sub>	35			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	450			A
Maximum Inst. Forward Voltage Drop, I <sub>F</sub> at 80Amp	V <sub>F</sub>	1.2			V
Maximum DC Reverse Current (V <sub>B</sub> )@T <sub>J</sub> =25°C At Rated DC Blocking Voltage (V <sub>B</sub> )@T <sub>J</sub> =175°C	I <sub>R</sub>	10 500			uA uA
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-40 to +175			°C

# 35.0 Amp Y-LEAD BLOCK AUTO DIODES

## RATINGS AND CHARACTERISTIC CURVES BYFR3502 ~ BYFR3506

FIG.1 - FORWARD CURRENT DERATING CURVE

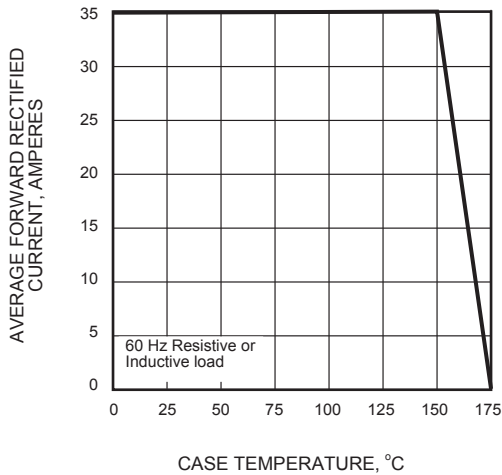


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

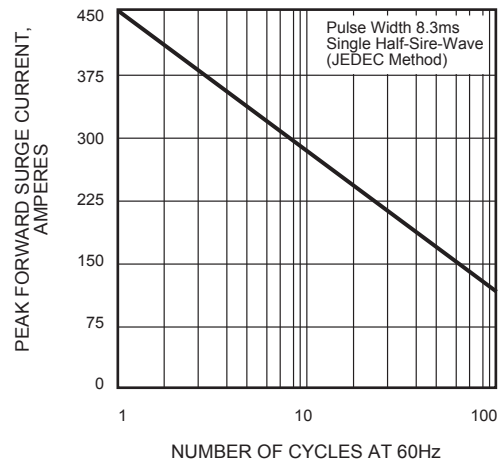


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

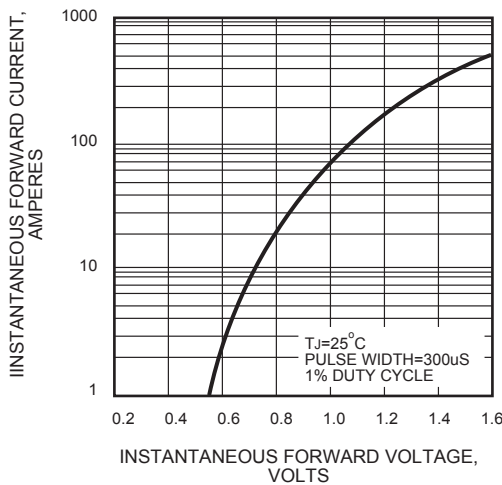


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

