Semiconductor *Data Sheet*

60Amp Bosch Type Pressfit
AVALANCHE Automotive Rectifiers

Voltage Range 16 to 28V
Current 60 Ampere

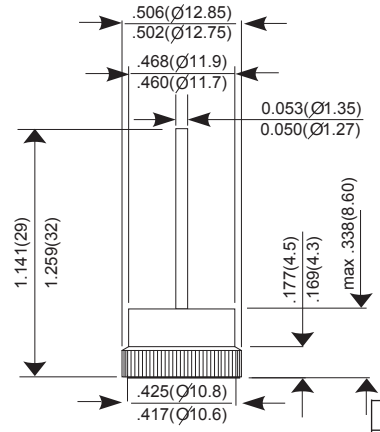
Features

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

Mechanical Data

- ✶ Case: OFC Heat Sink
- ✶ Encapsulation: Exoxy Sealed Rated UL94V-0
- ✶ Weight: 6.90 gram

PRESS-FIT



Ring colcr	
60A(P)	Red
60A(N)	Green

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	PBFR6018JP(N)	PBFR6020JP(N)	PBFR6030JP(N)	Units
Peak Repetitive Reverse Voltage@Irrm=100mA	V_{RRM}	19-24	24-32	34-45	V
Maximum RMS Voltage	V_{RMS}	16	20	28	V
Maximum DC Blocking Voltage(T_A=25°C) V_B	V_B	16	20	28	V
Average Forward Current Io@Tc=150°C 60 Hz, resistive or inductive load	$I_{(AV)}$	60			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	700			A
Maximum Inst. Forward Voltage Drop, I_F at 100 Amp	V_F	1.2			V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=175°C	I_R	1 150			uA uA
Operating Junction and Storage Temperature Range T_J, T_{STG}	T_J, T_{STG}	- 40 to + 175			°C

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FIG.1 - FORWARD CURRENT DERATING CURVE

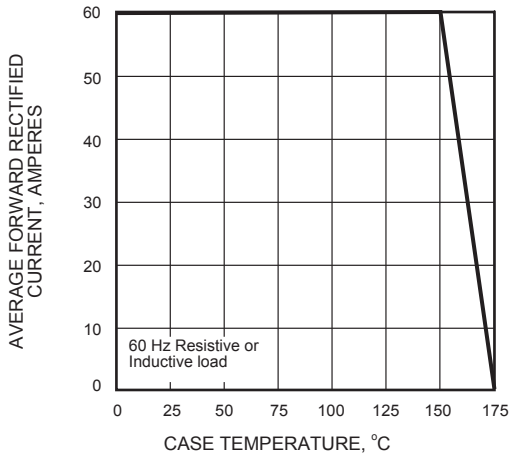


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

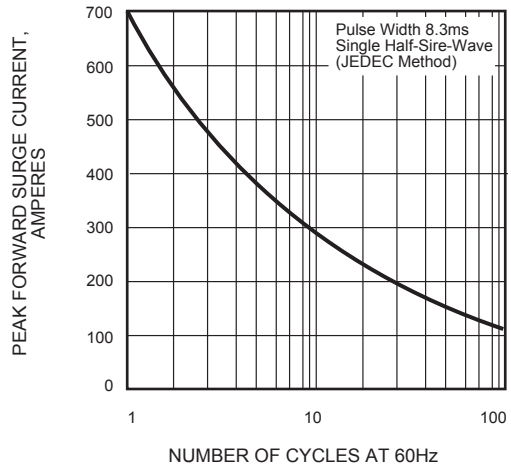


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

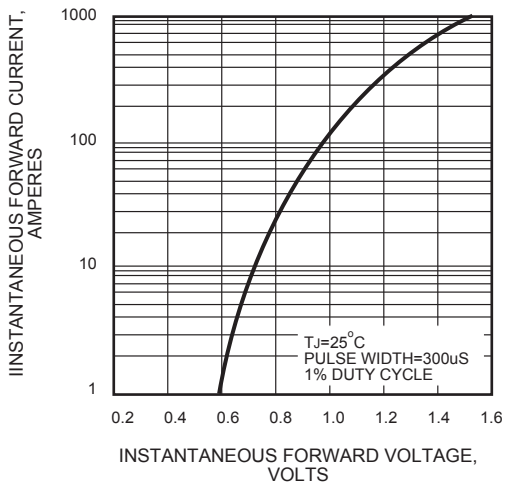


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

