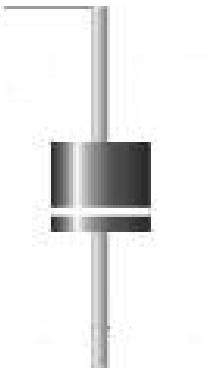
Data Sheet

10 Amp Glass Passivated Standard Rectifiers

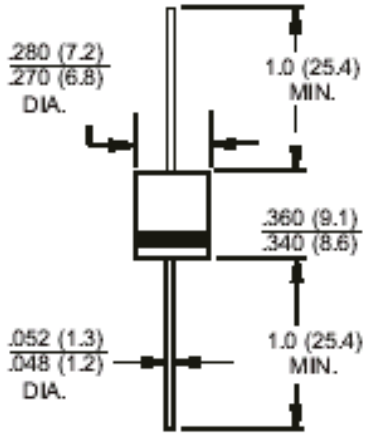
FG1001G~1007G

Description



R-6

Mechanical Dimensions



Dimension in inch (mm)

Feature

- Very Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Current capability
- Outline Free Pb

Mechanical Data

- Case: R-6 Molded Plastic
- Epoxy: UL94-V Rate Flame Retardant
- Terminals: Lead Solderable per MIL-STD-202 Method 208 Guaranteed
- Weight: 2.1grams(approx.)

Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic	Symbol	FG1 001	FG1 002	FG1 003	FG1 004	FG1 005	FG1 006	FG1 007	Unit
Peak Repetitive Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
working Peak Reverse Voltage	Vrwm	50	100	200	400	600	800	1000	V
DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	Vr(rms)	35	70	140	280	420	560	700	V
Forward Continuous Current	IF(AV)	10							A
non-Repetitive peak Surge Current 10ms Sine pulse, rated Vrrm applied	IFSM	600							A
Max Forward Voltage IF=10A @25C	Vf	1.05							V
Reverse Leakage Current WITH Vr @ 25C/150C	Ir	5/50							uA
Operating & Storage Temp. Range	Tj/Ts	-55 TO +160							C
Thermal Resistance Junction to Ambient	Rthja	14							C/W
Typical Junction Capacitance at 4.0, 1MHz	Cj	150							Pf

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FIG.1 FORWARD DERATING CURVE

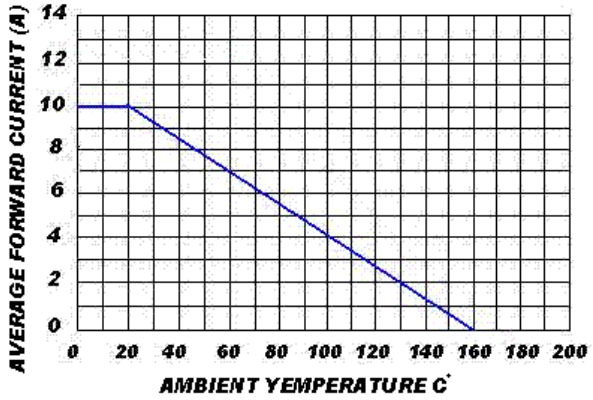

FIG.3 PEAK FORWARD SURGE CURRENT

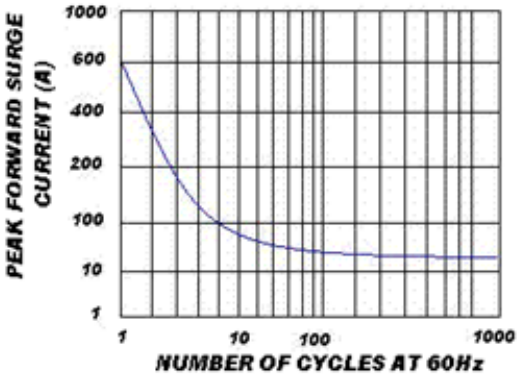

FIG.2 TYPICAL FORWARD CHARACTERISTIC

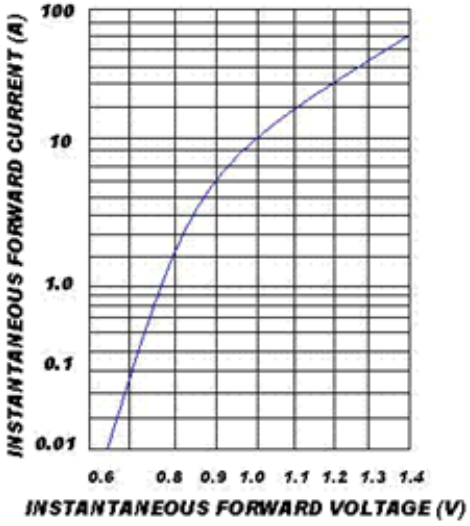

FIG.4 TYPICAL REVERSE CHARACTERISTIC