

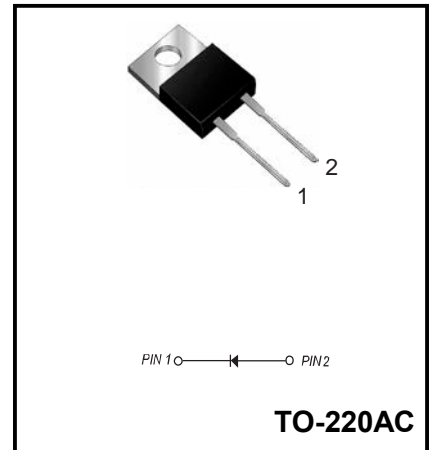
FRED Super Fast Recovery Rectifiers

Reverse Voltage - 1200 V

Forward Current - 30.0A

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
260°C/10 seconds at terminals



Mechanical Data

- ◆ Case : Molded plastic body
- ◆ Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any

Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOLS	MUR30120AC	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	1200	V
Maximum RMS voltage	V _{RMS}	840	V
Maximum DC blocking voltage	V _{DC}	1200	V
Maximum average forward rectified current at Tc=120°C	I _(AV)	30.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	350	A
Typical thermal resistance	R _{qJC}	2.0	°C/W
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOLS	TYPE	MAX	UNITS
Maximum instantaneous forward voltage per diode at 30.0A	V _F	3.0	3.5	V
Maximum DC reverse current at rated DC blocking voltage	I _R	50 500	50 2000	u A u A
Maximum reverse recovery time	T _{rr}	50	60	ns

Note: Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

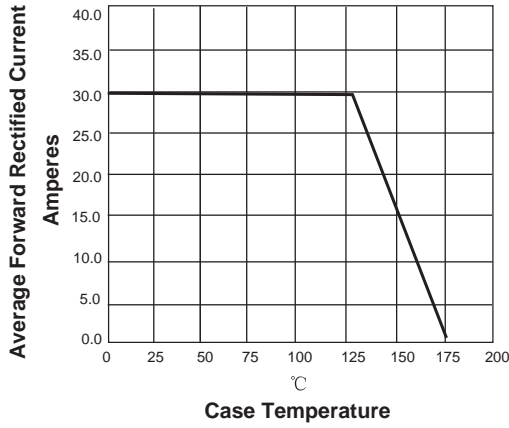


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

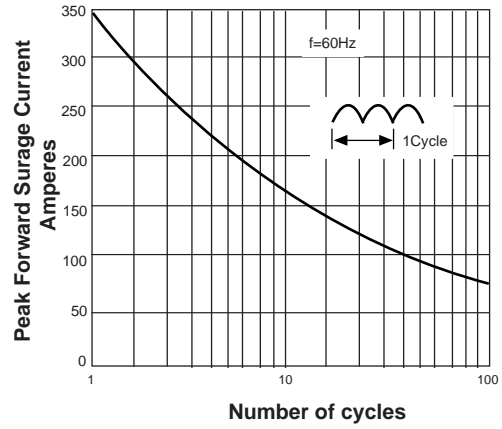


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

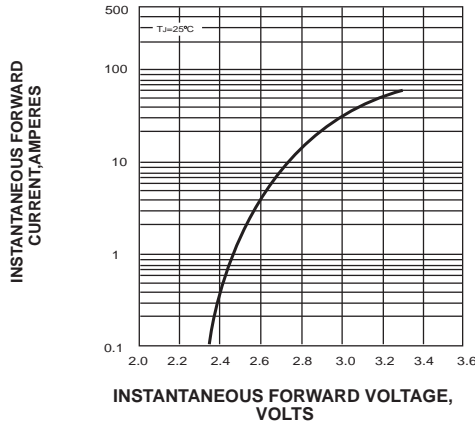
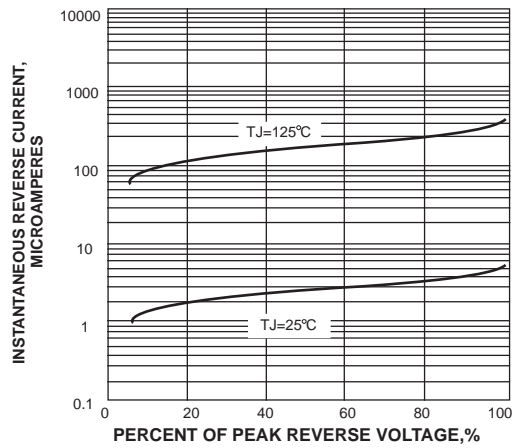
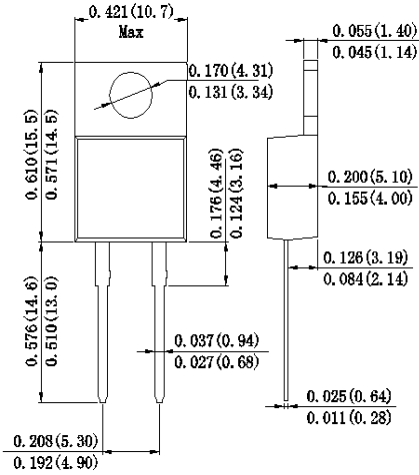


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Package Outline Dimensions Millimeters

TO-220AC



Product Specification Classification

Part Number	Package	Marking	Pack
MUR30120AC	TO-220AC	MUR30120AC XXXXX	1000pcs/box

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