

FRED Super Fast Recovery Rectifiers

Reverse Voltage -600 V

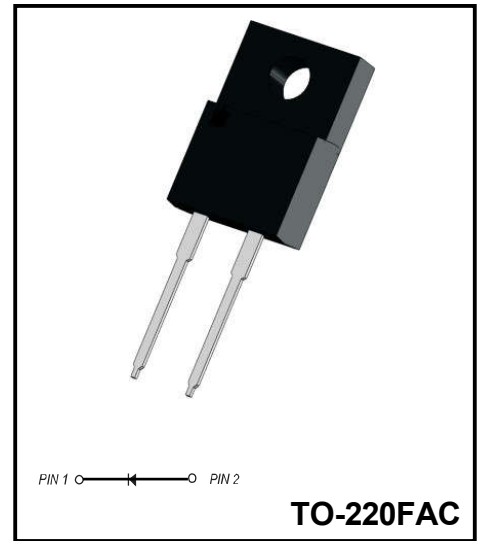
Forward Current - 20A

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
260°C/10seconds at terminals

MECHANICAL DATA

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



Primary Characteristic

I_(AV)	20A
V_{RRM}	600V
I_{FSM}	200A
V_F	1.45V
T_J Max	175°C

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

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum average forward rectified current at T _C =110 °C	I_(AV)	20	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	200	A
Operating Temperature Range	T_J	-55 ~ +175	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C
Typical Thermal Resistance	R_{θJC}	4.0	°C/W

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

Characteristics	Symbols	Value		Units
Maximum instantaneous forward voltage per diode at 20.0A	V_F	1.45	1.7	V
Maximum DC reverse current at rated DC blocking voltage	I_R	T _A =25°C	0.10	5
		T _A =125°C	50	200
Maximum reverse recovery time	T_{RR}	30	35	nS

Note: Reverse recovery time test condition: IF=0.5A IR=1.0A I_{rr}=0.25A

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

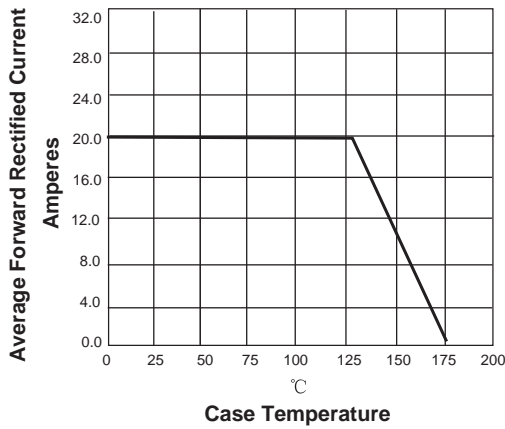


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

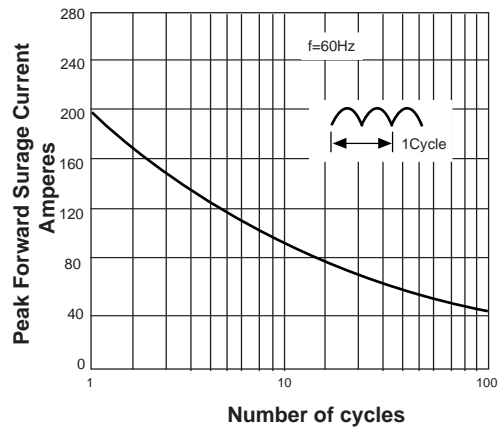


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

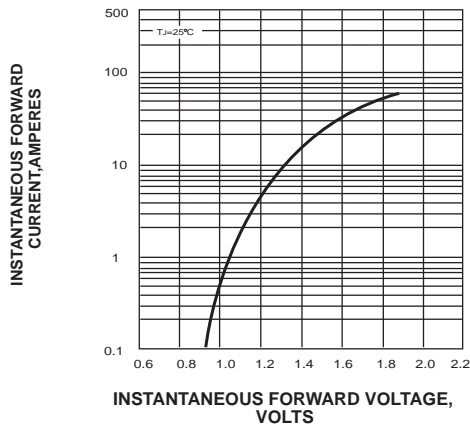
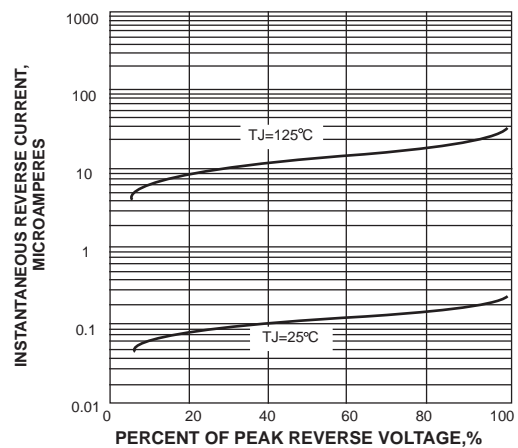
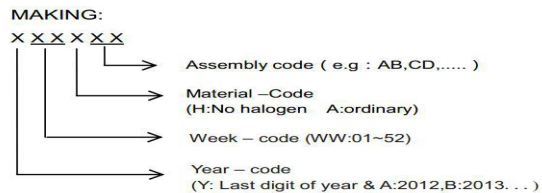
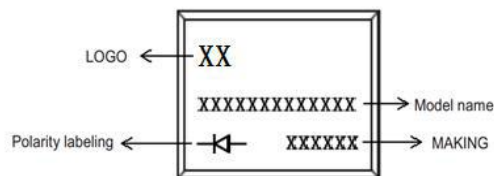


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking on the body



Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR2060FAC	TO-220FAC	0.06oz(1.7g)	50 pcs / tube	1000pcs/box 5000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-220FAC

