

Ultra Fast Recovery Rectifier

Reverse Voltage -600 V

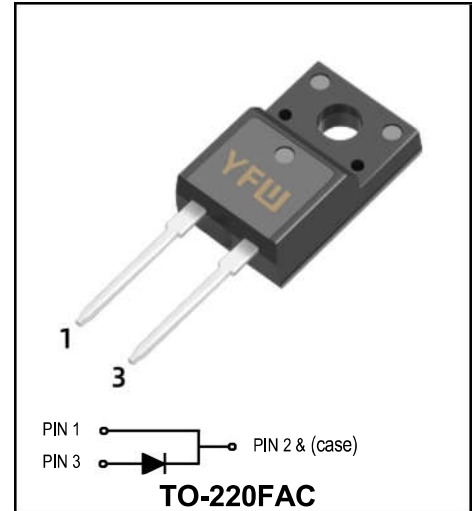
Forward Current - 20 A

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: TO-220FAC/AF
- ◆Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ◆Polarity: Polarity symbol marking on body
- ◆Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C)

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 Tc=110°C	$I_{(AV)}$	20	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	250	A
Typical thermal resistance	$R_{\theta JC}$	4.0	°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)

Characteristics	Symbols	Typ	Max	Units
Maximum instantaneous forward voltage per diode at 20.0A	V_F	2.3	2.7	V
Maximum DC reverse current at rated DC blocking voltage	I_R	0.3	5	uA
		50	200	uA
Maximum Reverse Recovery Time at $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$	T_{RR}	35	40	nS

Note: Reverse recovery time test condition: $I_F=0.5A$ $I_R=1.0A$ $I_{RR}=0.25A$

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

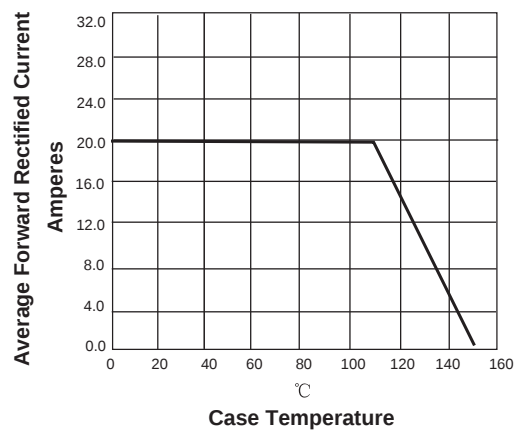


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

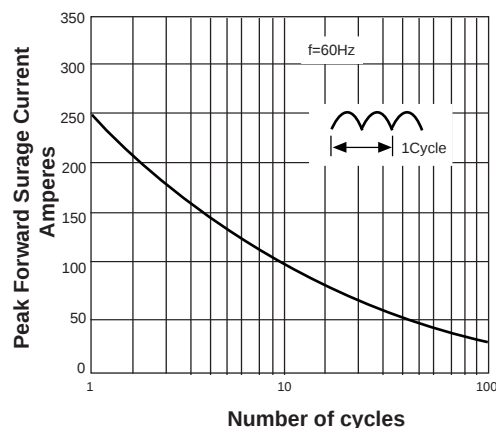


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

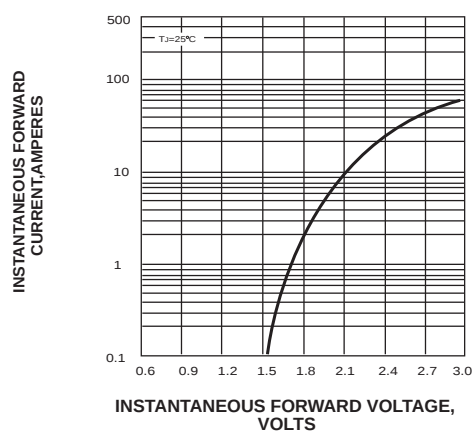
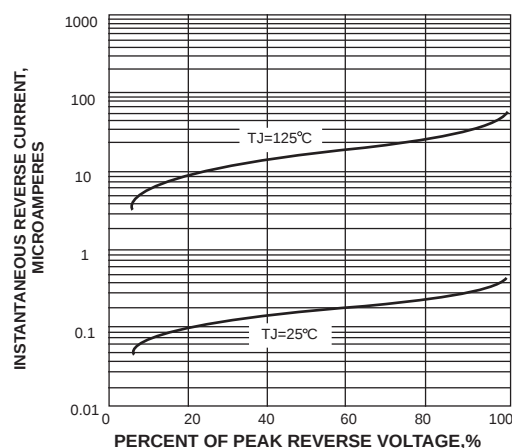
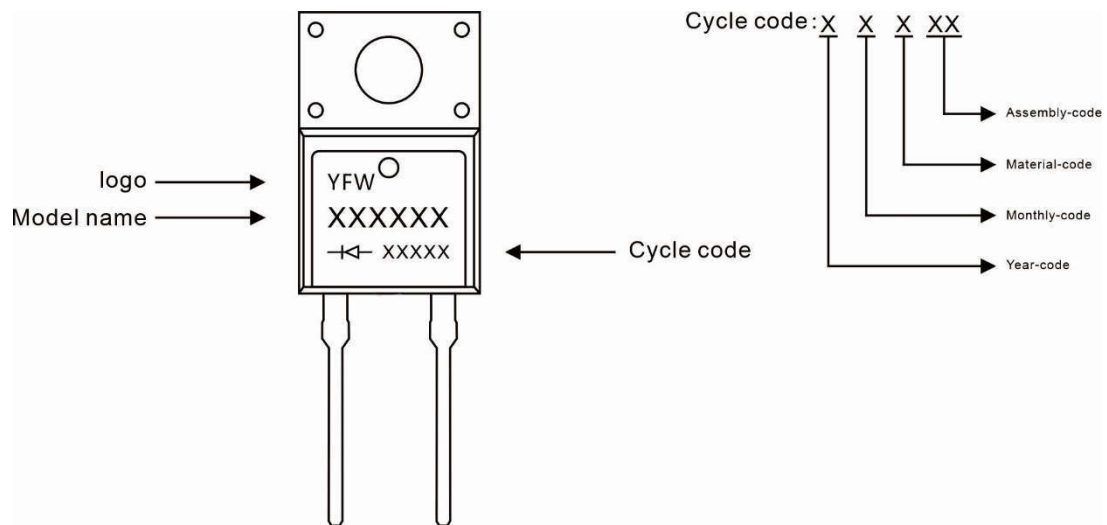


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR2060DAF	TO-220FAC	0.06oz(1.7g)	50pcs/tube	1000PCS/Box 5000PCS/Carton

Package Dimensions

TO-220AC

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.50	4.90	0.177	0.193
A1	2.34	2.74	0.092	0.108
A2	2.66	2.86	0.105	0.113
b	0.75	0.85	0.030	0.033
b1	1.24	1.44	0.049	0.057
c	0.40	0.60	0.016	0.024
D	10.00	10.32	0.394	0.406
E	15.75	16.05	0.620	0.632
e	4.88	5.28	0.192	0.208
F	3.10	3.5	0.122	0.138
L	12.90	13.50	0.508	0.531
L1	2.90	3.30	0.114	0.130
Φ	3.10	3.30	0.122	0.130

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