

Super Fast Recovery Rectifiers

Reverse Voltage - 600 V

Forward Current - 80 A

FEATURES

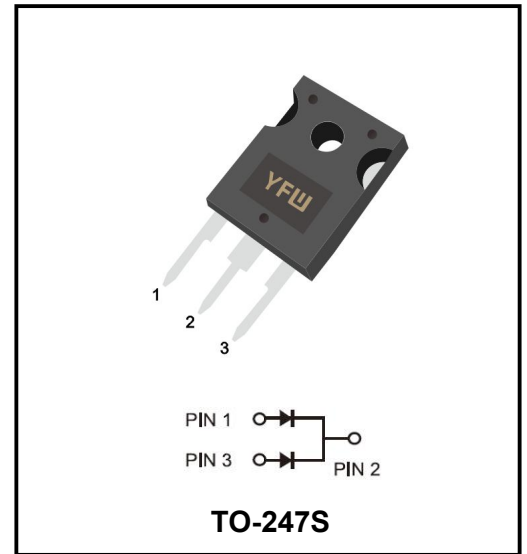
- ♦The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ♦Construction utilizes void-free molded plastic technique
- ♦Low reverse leakage
- ♦High forward surge current capability
- ♦High temperature soldering guaranteed 260°C/10seconds at terminals

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_o	2*40A
V_{RRM}	600V
I_{FSM}	300A
V_F	2.1V
T_J Max	150°C



Maximum Ratings (Per Leg) at 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 Tc=120 °C	Per Leg	40	A
	Total	80	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	300	A
Operating Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C
Typical thermal resistance	R_{θJC}	1.5	°C/W

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbols	Value		Units
		Typ	Max	
Maximum instantaneous forward voltage per diode at 40A	V_F	2.1	2.5	V
Maximum DC reverse current at rated DC blocking voltage	I_R	0.1	5	uA
		50	200	uA
Maximum Reverse Recovery Time	T_{RR}	35	50	nS

Note:1.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

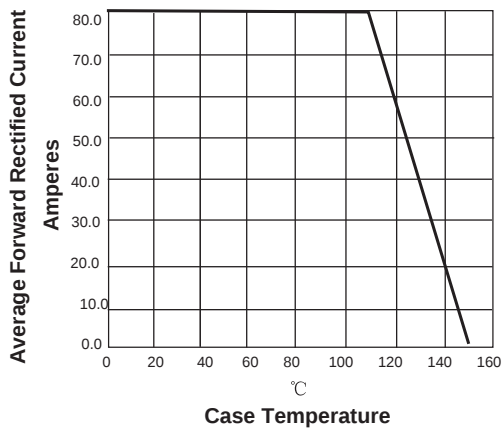


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

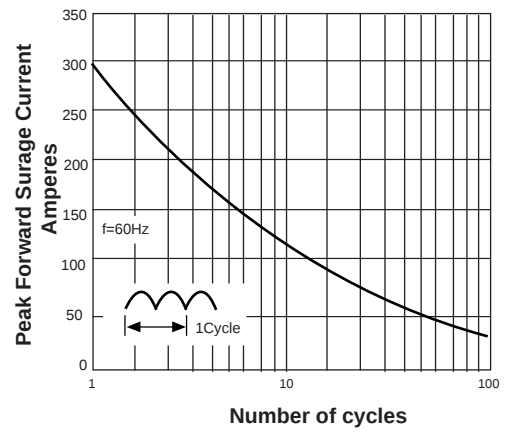


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

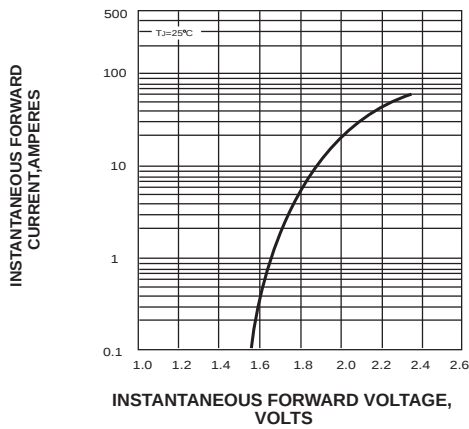
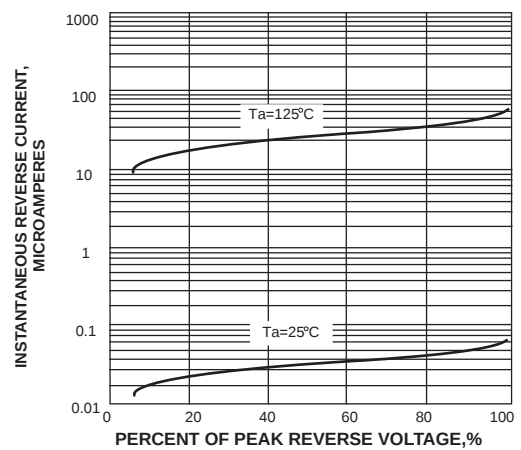
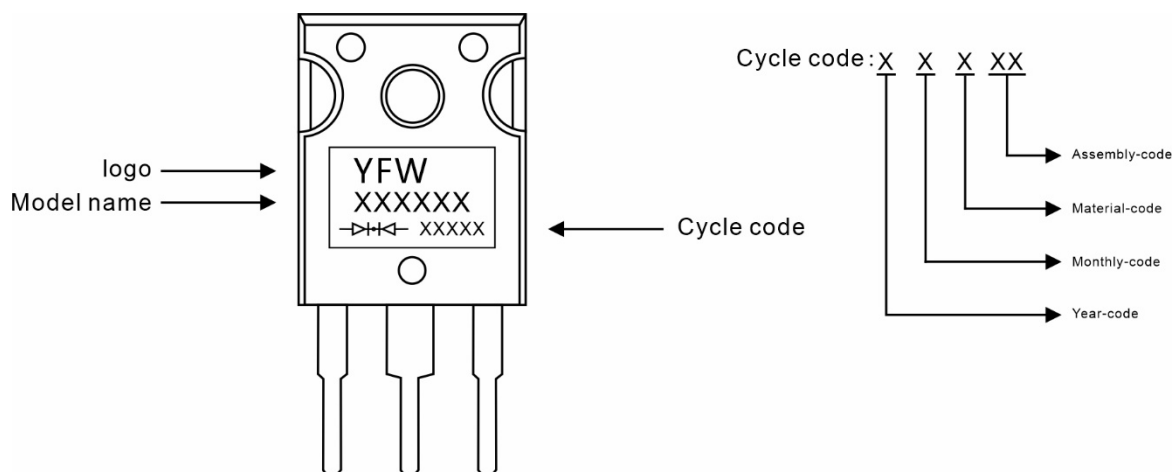


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR8060PTS	TO-247S	0.158oz(4.48g)	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-247S

Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
E	15.40	15.80	0.60	0.62
D	19.50	20.50	0.77	0.80
S	5.30	5.50	0.21	0.22
ØR	4.50	5.50	0.18	0.22
ØP	3.40	3.80	0.13	0.15
L	14.0	14.5	0.55	0.57
L1	3.70	4.30	0.15	0.17
L2	18.5		0.73	
e	5.20	5.70	0.20	0.22
b	1.15	1.25	0.04	0.05
b1	1.80	2.20	0.07	0.09
b2	2.80	3.20	0.11	0.13
A	4.80	5.00	0.19	0.20
c	0.40	0.70	0.01	0.02
A1	2.30	2.45	0.09	0.10

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