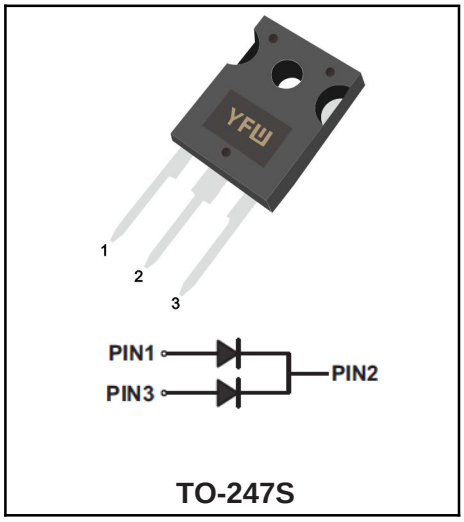
ULTRAFST RECOVERY RECTIFIERS

Reverse Voltage -300 V

Forward Current - 60 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 250 °C/10 seconds at terminals

MECHANICAL DATA

- Case: TO-247S
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position : Any

Primary Characteristic

I_o	2*30A
V_{RRM}	300V
I_{FSM}	300A
V_F	1.2V
T_J Max	150°C

Maximum Ratings And Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	300	V
Maximum RMS voltage		V_{RMS}	210	V
Maximum DC Blocking Voltage		V_{DC}	300	V
Average Forward Current	per device	I_F	60	A
	per diode		30	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave		I_{FSM}	300	A
Operating Temperature Range		T_J	-55 to +150	°C
Storage Temperature Range		T_{STG}	-55 to +150	°C
Typical Thermal Resistance		$R_{\theta JC}$	1.5	°C/W

Note: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop		V_F	Typ	Max	V
at IF=30A	TA=25°C		-	1.5	
	TA=125°C		1.2	-	
Maximum Reverse Current at V_R=300V	TA=25°C	I_R	-	10	μA
	TA=125°C		-	200	μA
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A		T_{RR}	-	35	nS

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

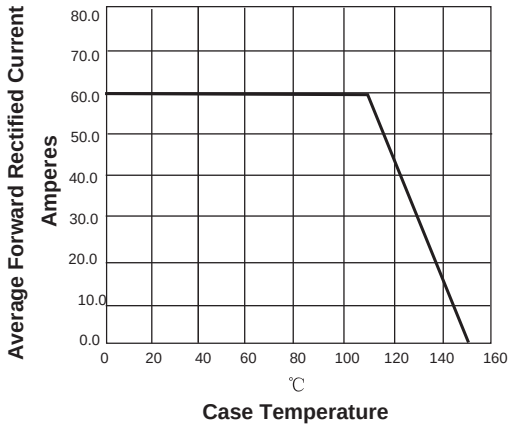


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

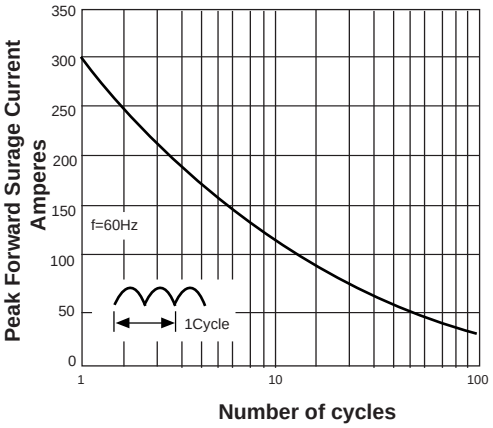


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

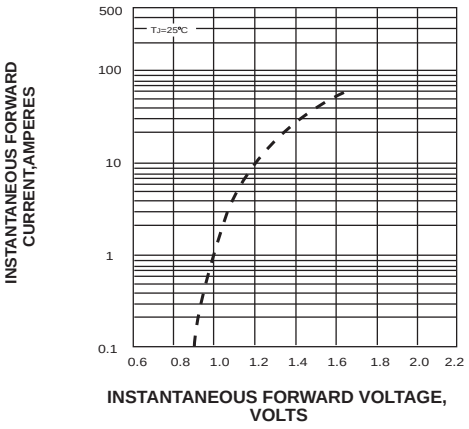
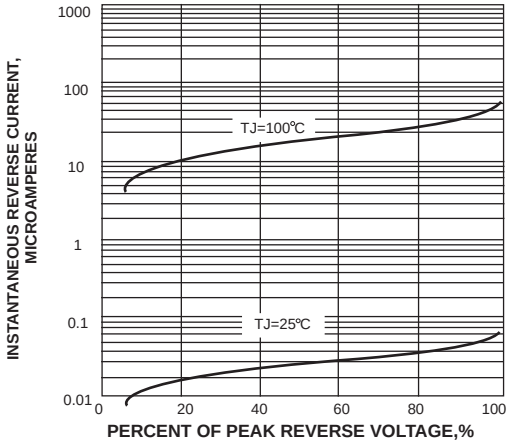
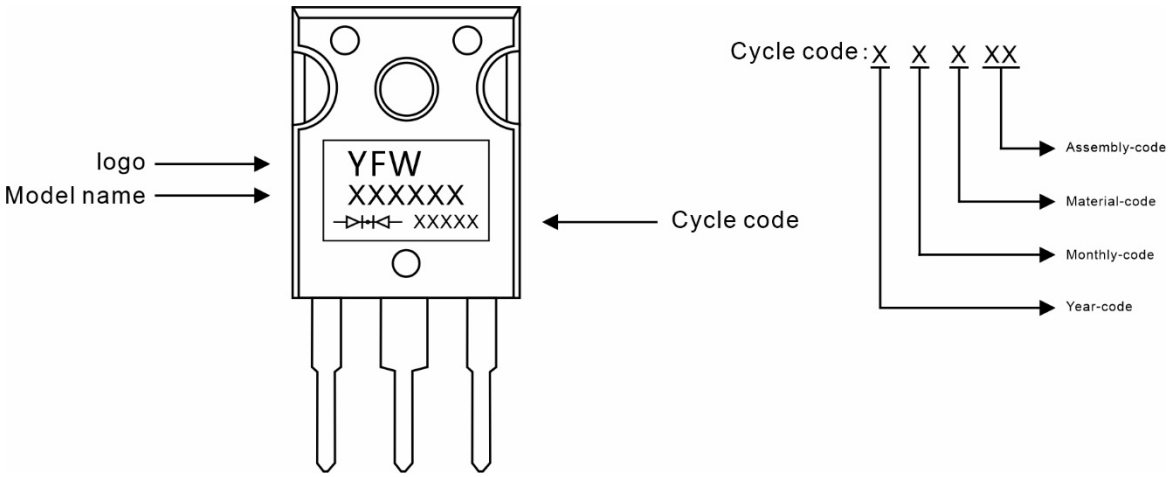


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

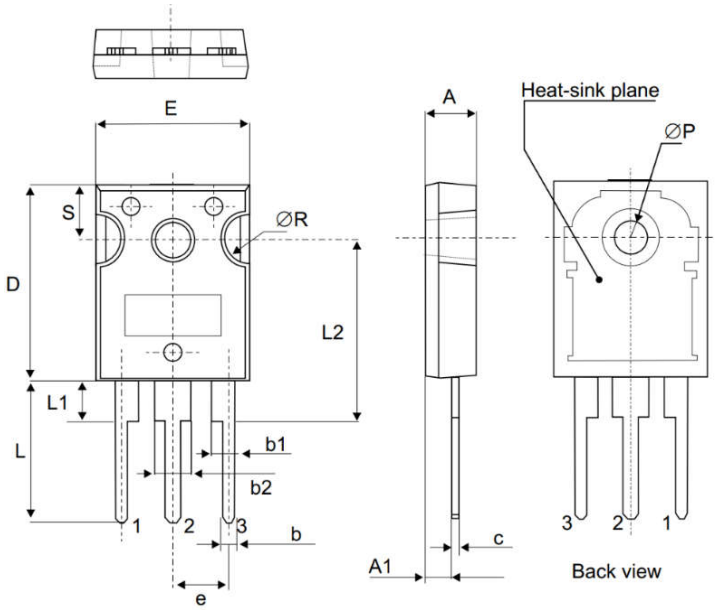


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR6030PTS	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
⌀R	4.50	5.50	0.18	0.22
⌀P	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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