

Ultrafast Recovery Rectifier
Reverse Voltage - 600 V
Forward Current - 80 A
FEATURES

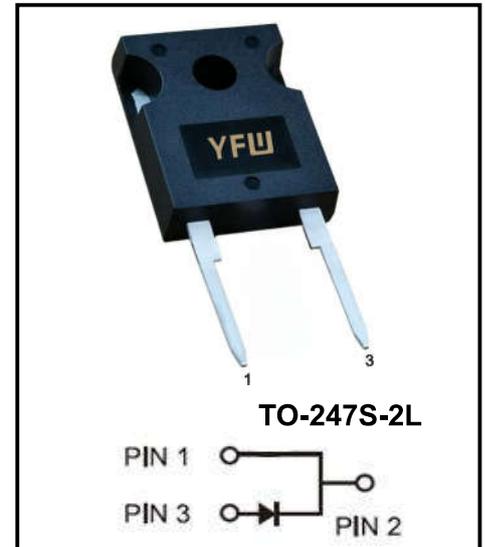
- ◆ Low forward voltage
- ◆ High forward surge current capability
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ High temperature soldering guaranteed 260°C/10 seconds at terminals

APPLICATION

For use in ultrafast switching rectification of power suppliers, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Primary Characteristic

I_o	80A
V_{RRM}	600V
I_{FSM}	700A
V_F	1.28V
T_{J Max}	175°C


Absolute Maximum Ratings(Tc=25C unless otherwise noted)

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	I_o	80	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	700	A
Typical junction capacitance (Note 1)	C_J	330	pF
Operating Junction Temperature Range	T_J	-55 ~ +175	°C
Storage Temperature Range	T_{STG}	-55 ~ +175	°C
Typical Thermal Resistance	R_{θJA} R_{θJC}	35 0.6	°C/W

Absolute Maximum Ratings(T_J=25°C unless otherwise noted)

Characteristics		Symbols	Typ	Max	Units
Typical Forward Voltage at I _F =80A	TA=25°C	V_F	1.42	1.7	V
	TA=125°C		1.28	-	
Maximum Reverse Current at V _R =600V	TA=25°C	I_R	0.1	10	uA
	TA=150°C		90	500	
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A		T_{RR}	70	100	nS

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

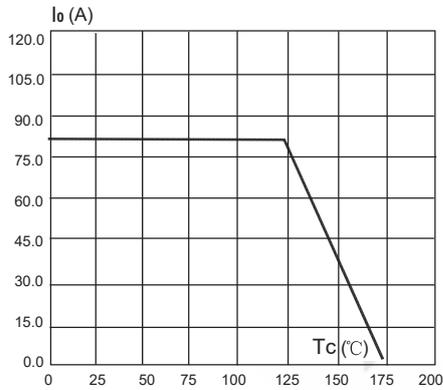


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

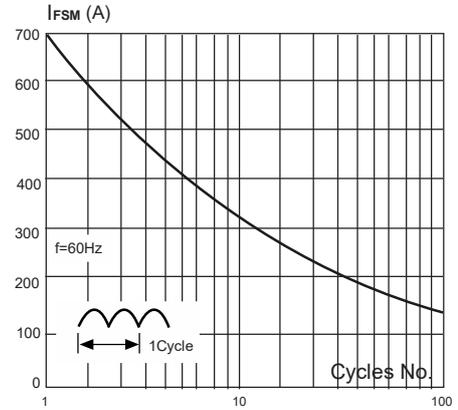


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

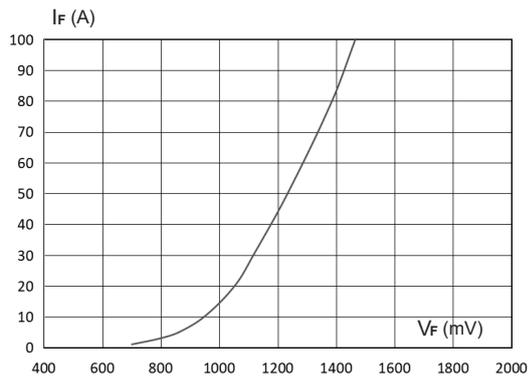
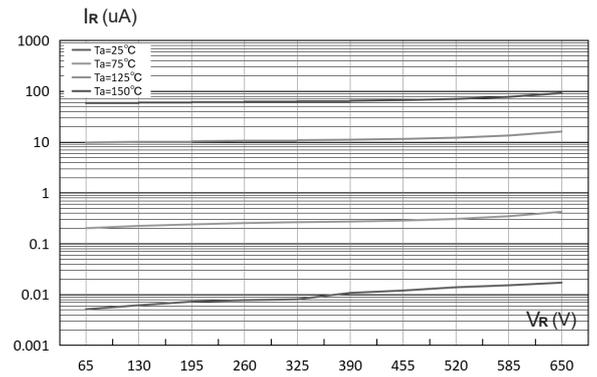
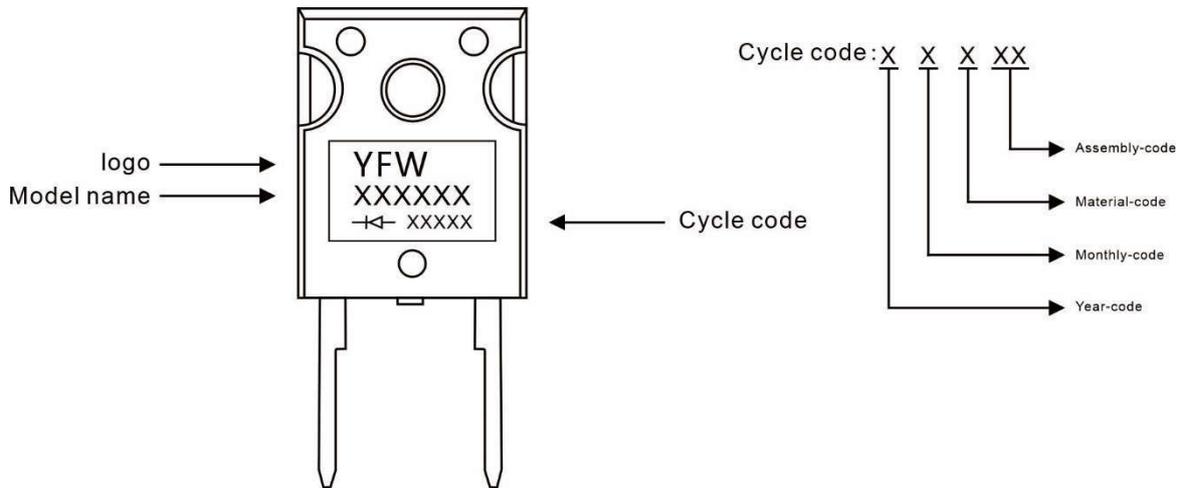


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

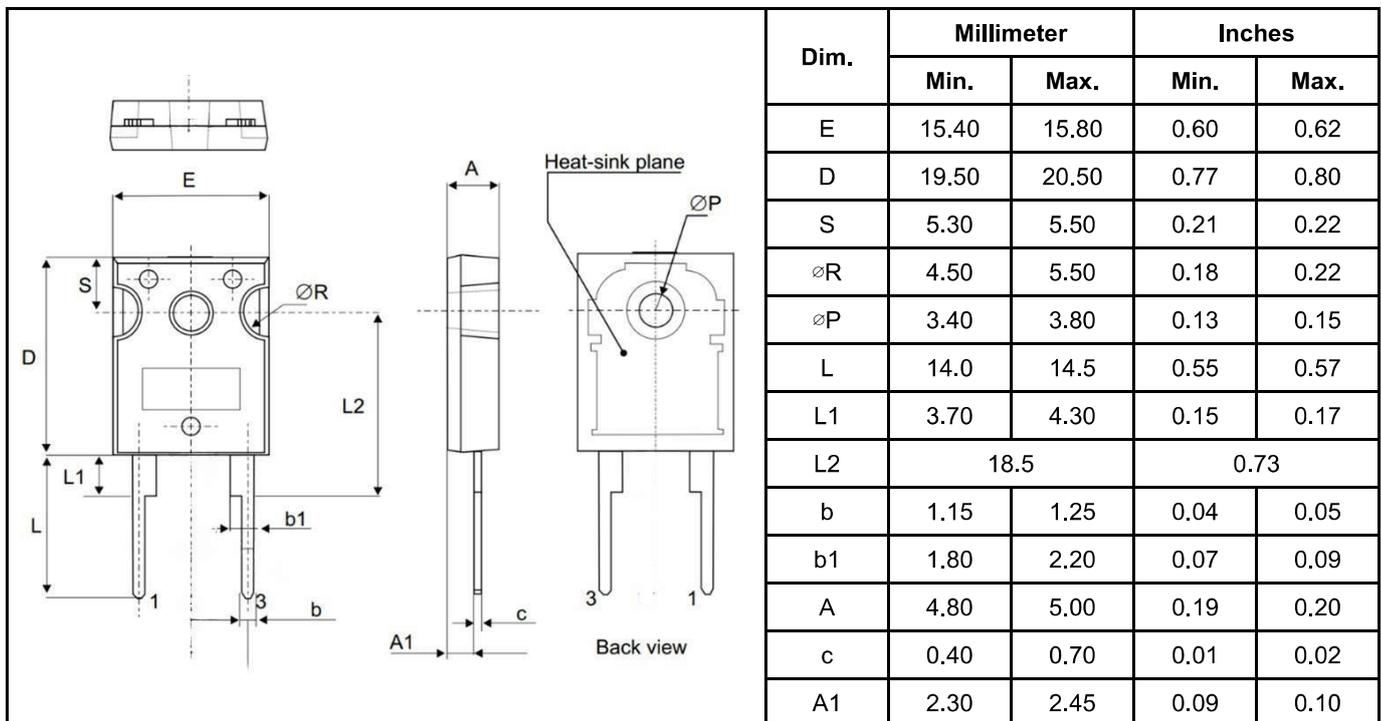


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR8060WS	TO-247S-2L	0.158oz(4.48g)	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-247S-2L



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