

Super Fast Recovery Rectifier Diode

Reverse Voltage - 1200 V

Forward Current - 60 A

FEATURES

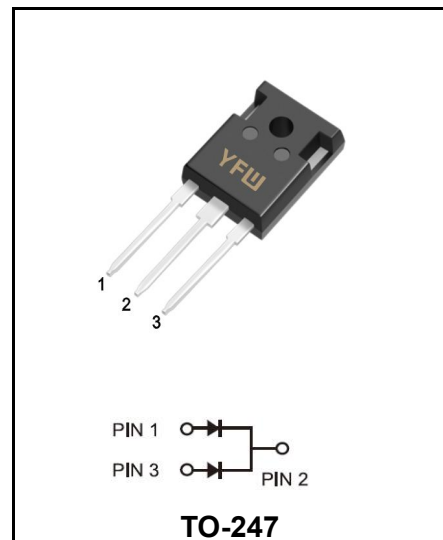
- ◆ Super fast switching for high efficiency.
- ◆ Low reverse leakage.
- ◆ High forward surge current capability.

MECHANICAL DATA

- ◆ Case: TO-247/PT
- ◆ Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free"

Primary Characteristic

I_o	2*30A
V_{RRM}	1200V
I_{FSM}	240A
V_F	2.2V
T_J Max	175°C



Maximum Ratings And Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1200	V
Maximum RMS voltage	V_{RMS}	840	V
Maximum DC Blocking Voltage	V_{DC}	1200	V
Average Forward Current	I_{F(AV)}	30	A
per leg		60	
per device			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	240	A
Operating Temperature Range	T_J	-40 to +175	°C
Storage Temperature Range	T_{STG}	-40 to +175	°C
Typical Thermal Resistance(per leg)	R_{θJC}	0.5	°C/W

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop		V _F	Typ	Max	V
at IF=30A	Tj =25°C		2	2.4	
	Tj =125°C		-	2.2	
Maximum Reverse Current at VR=1200V	Tj =25°C	I _R	-	10	μA
	Tj =125°C		-	0.1	mA
Tj =25°C, VR=0V, f=1MHz		C _J	380	-	pF
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A		T _{RR}	-	75	nS

Typical Characteristics Curves

Fig1. Typical Forward Current and Forward Voltage

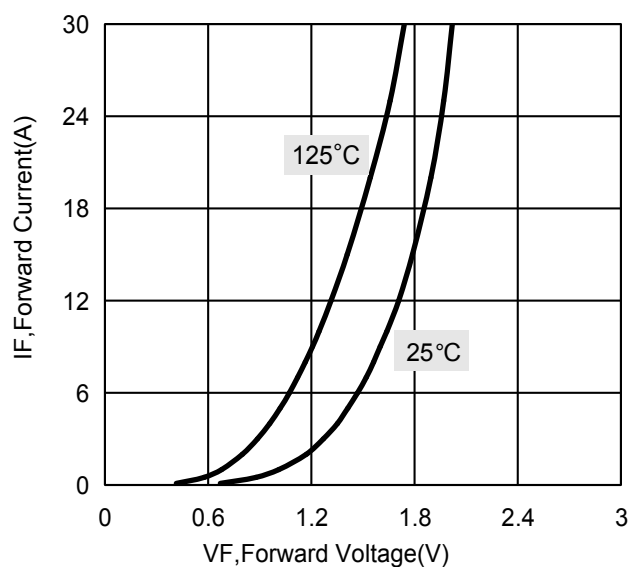


Fig2. Typical Current Derating Curve, Per Element

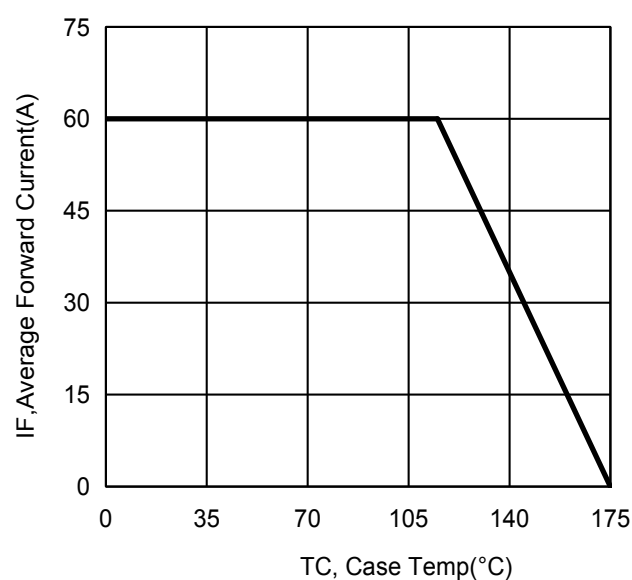


Fig3. Typical Reverse Current and Reverse Voltage

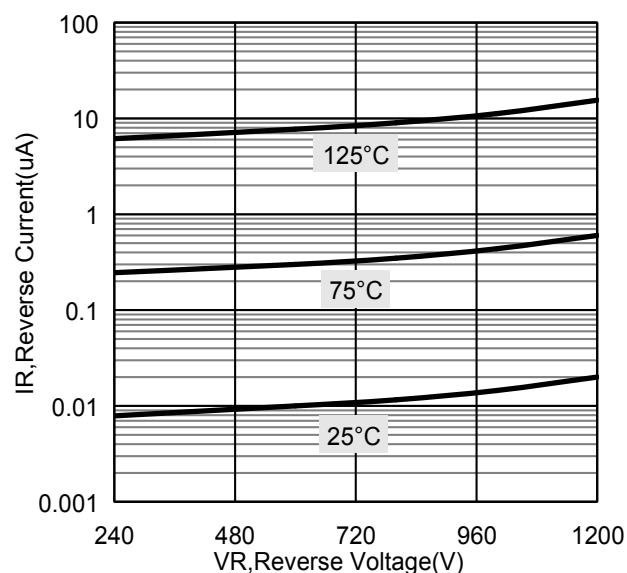
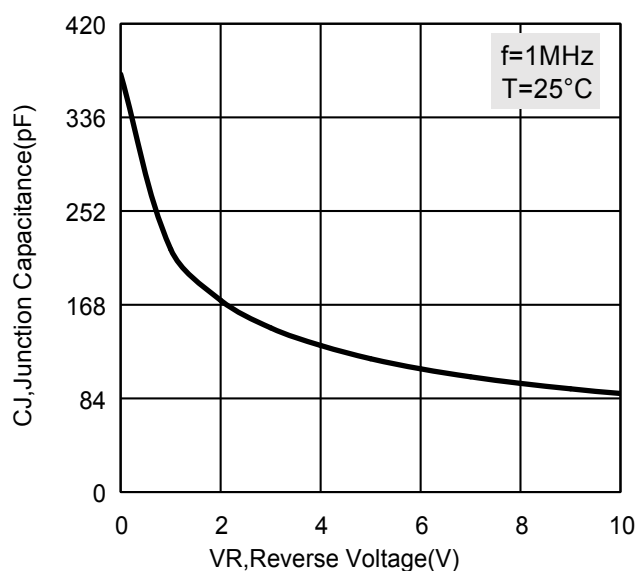
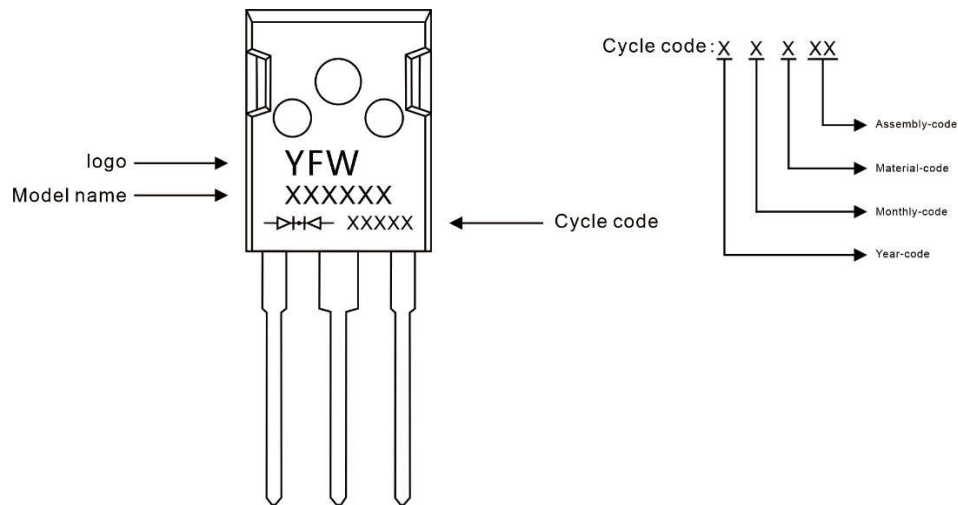


Fig4. Typical Junction Capacitance and Reverse Voltage



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR60120PT	TO-247	0.209oz(5.93g)	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-247

Symbol	Dimensions in mm		Dimensions in Inch	
	Min.	Max.	Min.	Max.
A	4.90	5.10	0.193	0.201
A1	1.90	2.10	0.075	0.083
A2	2.29	2.54	0.090	0.100
b	1.00	1.40	0.039	0.055
b1	2.00	2.20	0.079	0.087
b2	3.00	3.20	0.118	0.126
c	0.50	0.70	0.020	0.028
D	15.75	16.05	0.620	0.632
E	20.20	20.80	0.795	0.819
e	5.45 (BSC)		0.215 (BSC)	
e1	10.90 (BSC)		0.429 (BSC)	
F	6.05	6.25	0.238	0.246
F1	5.80	6.00	0.228	0.236
L	20.10	20.40	0.791	0.803
L1	4.05	4.35	0.159	0.171
Φ	3.50	3.70	0.138	0.146

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