

# FDRW60C120J(1200V, 60A)

FUJI Diode

## Soft Recovery FRD Series

### ■ Maximum Rating and Characteristics

#### ● Maximum Ratings (at $T_a=25^\circ\text{C}$ unless otherwise specified.)

Item	Symbol	Conditions	Ratings	Units
Repetitive peak reverse voltage	$V_{RRM}$	–	1200	V
Average forward current	$I_o$	50Hz Square wave duty =1/2 $T_c = 87^\circ\text{C}$	60*	A
Non-repetitive forward surge current **	$I_{FSM}$	Sine wave, 10ms 1shot	150	A
Operating junction temperature	$T_j$	–	+150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	–	-40~+150	$^\circ\text{C}$

\* Out put current of center tap full wave connection.

\*\* Rating per element.

#### ● Electrical Characteristics (at $T_a=25^\circ\text{C}$ unless otherwise specified.)

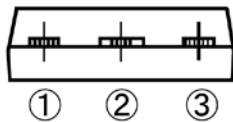
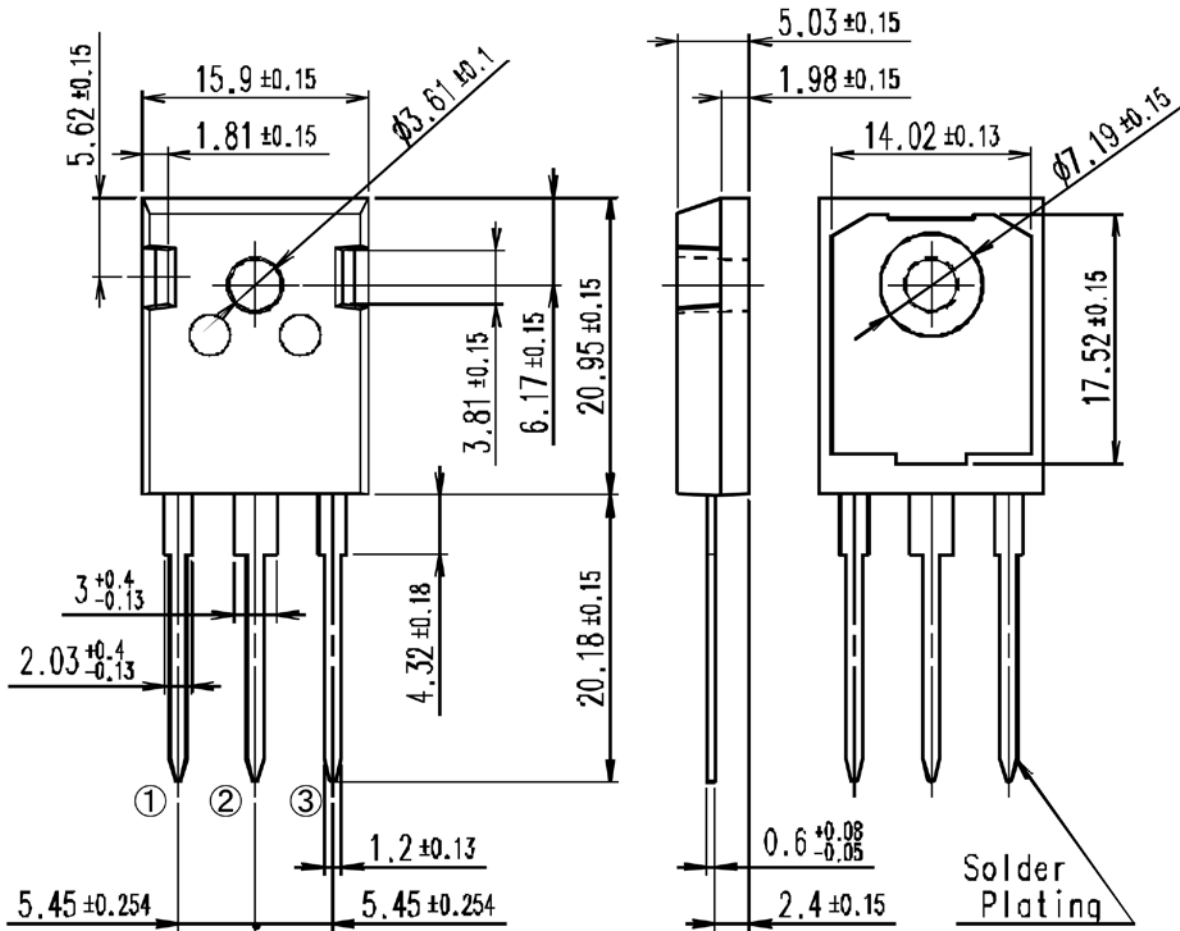
Item	Symbol	Conditions	Maximum	Units
Forward voltage***	$V_F$	$I_F = 30\text{A}$	2.8	V
Reverse current***	$I_R$	$V_R = V_{RRM}$	250	$\mu\text{A}$
Reverse recovery time***	$t_{rr}$	$V_R=30\text{V}, I_F = 3.0\text{A}$ $-di/dt=200\text{A}/\mu\text{s}$	0.063	$\mu\text{s}$
Thermal resistance	$R_{th(j-c)}$	Junction to case	0.397	$^\circ\text{C}/\text{W}$

\*\*\* Rating per element.

#### ● Mechanical Characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4~0.6	N·m
Approximate mass	–	4.9	g

■ Outline Drawings, mm  
TO-247

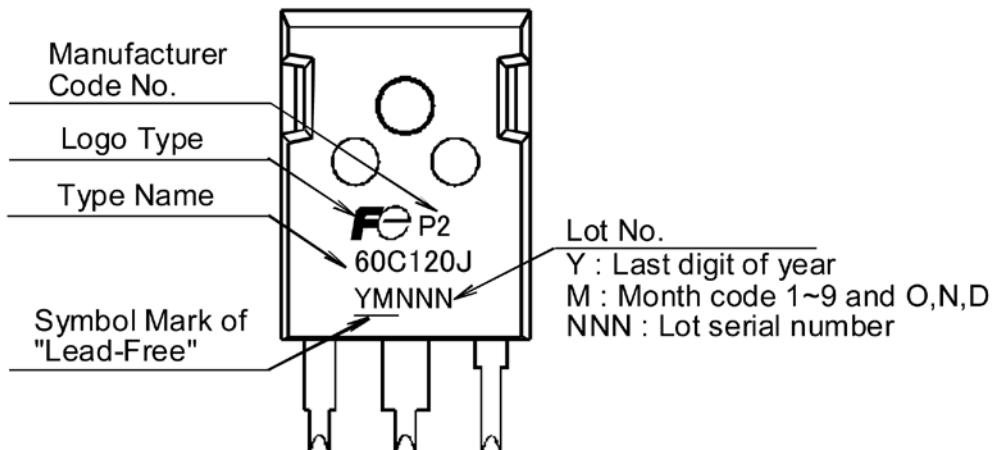


CONNECTION

- ① Anode
- ② Cathode
- ③ Anode

DIMENSIONS ARE IN MILLIMETERS.

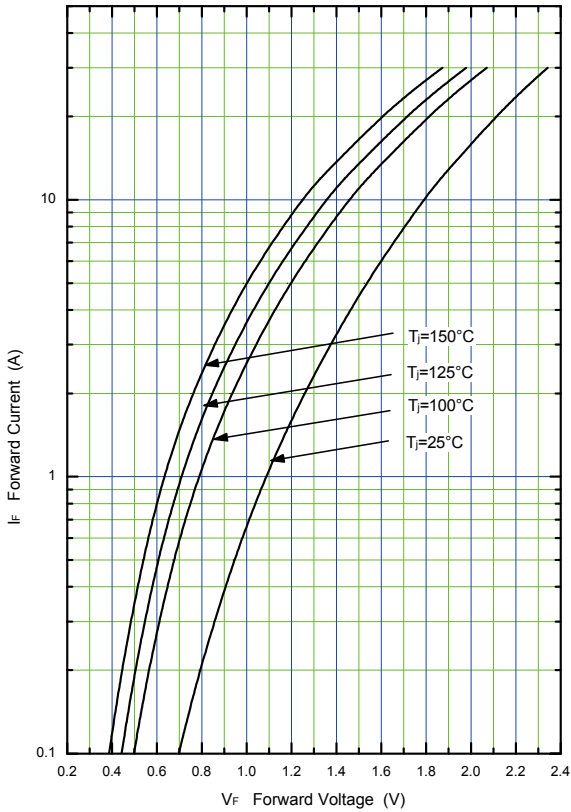
MARKING



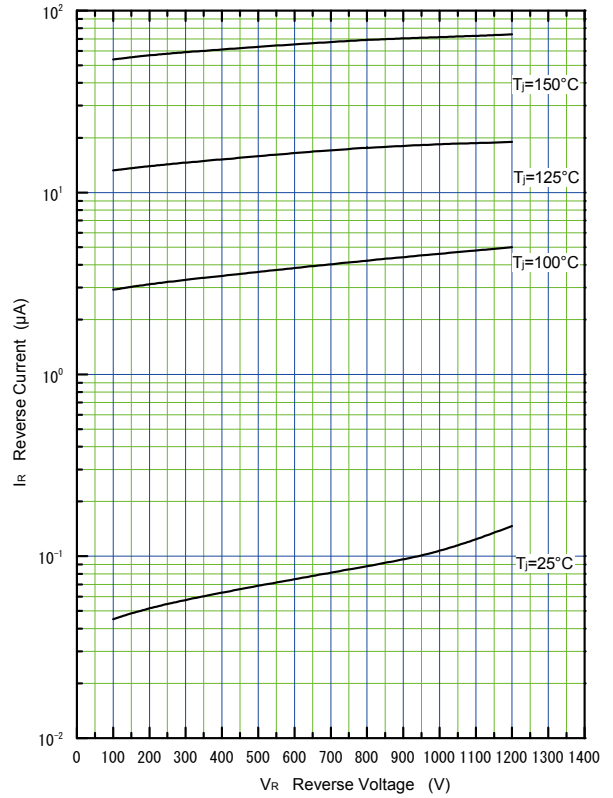
\* The font (font type, size) and the logo type size might be actually different.

■ Characteristics (Representative)

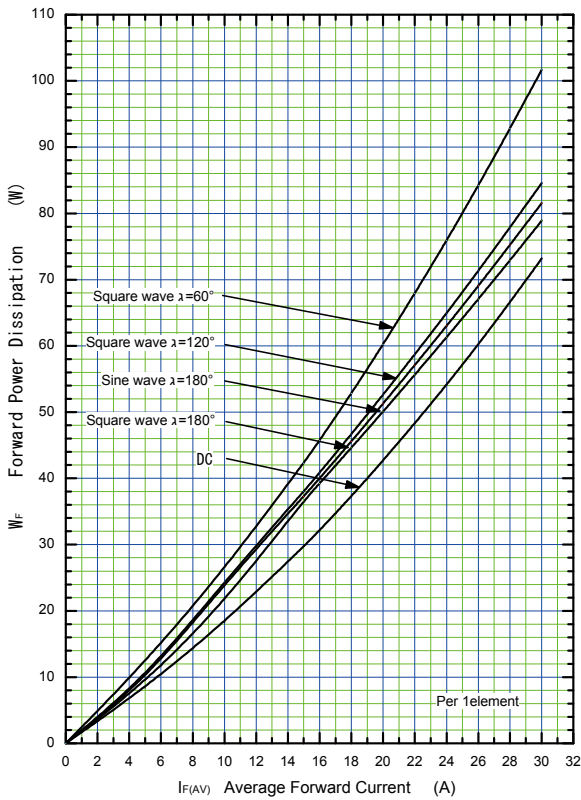
Forward Characteristic (typ.)



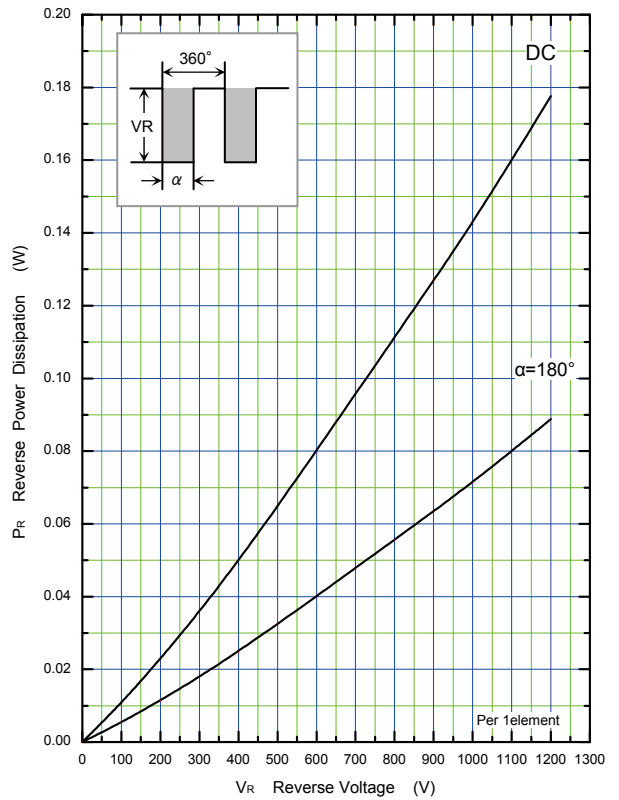
Reverse Characteristic (typ.)

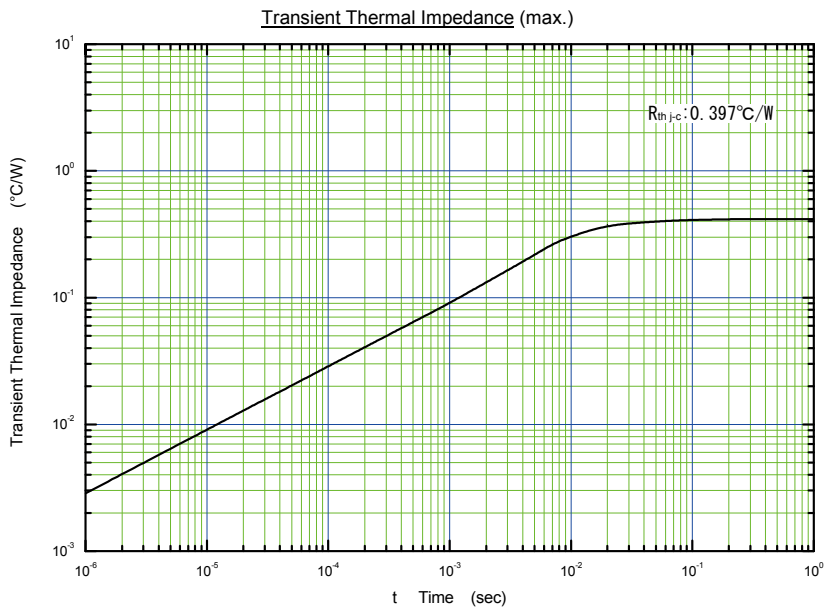
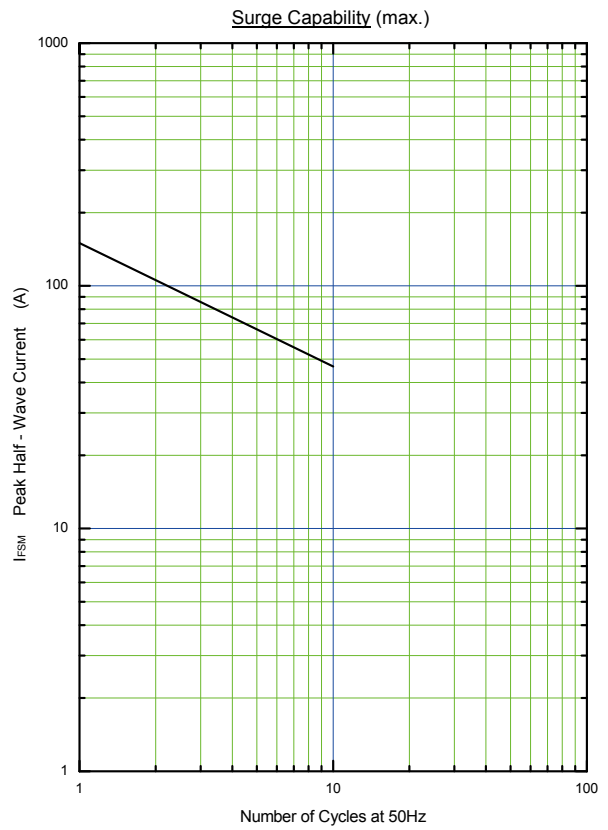
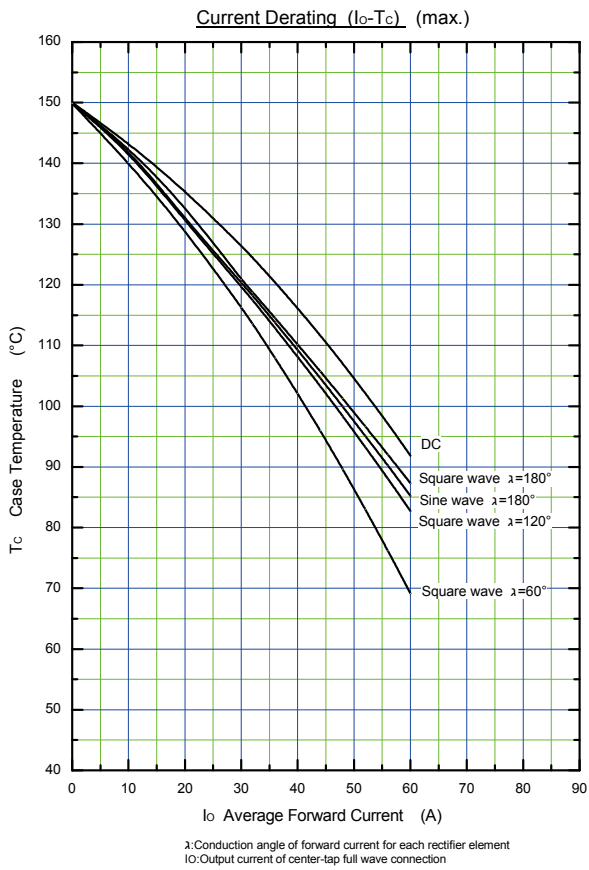


Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)





**WARNING**

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  - Machine tools
  - Audiovisual equipment
  - Electrical home appliances
  - Personal equipment
  - Industrial robots etc.
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  - Safety devices
  - Medical equipment
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