

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.)

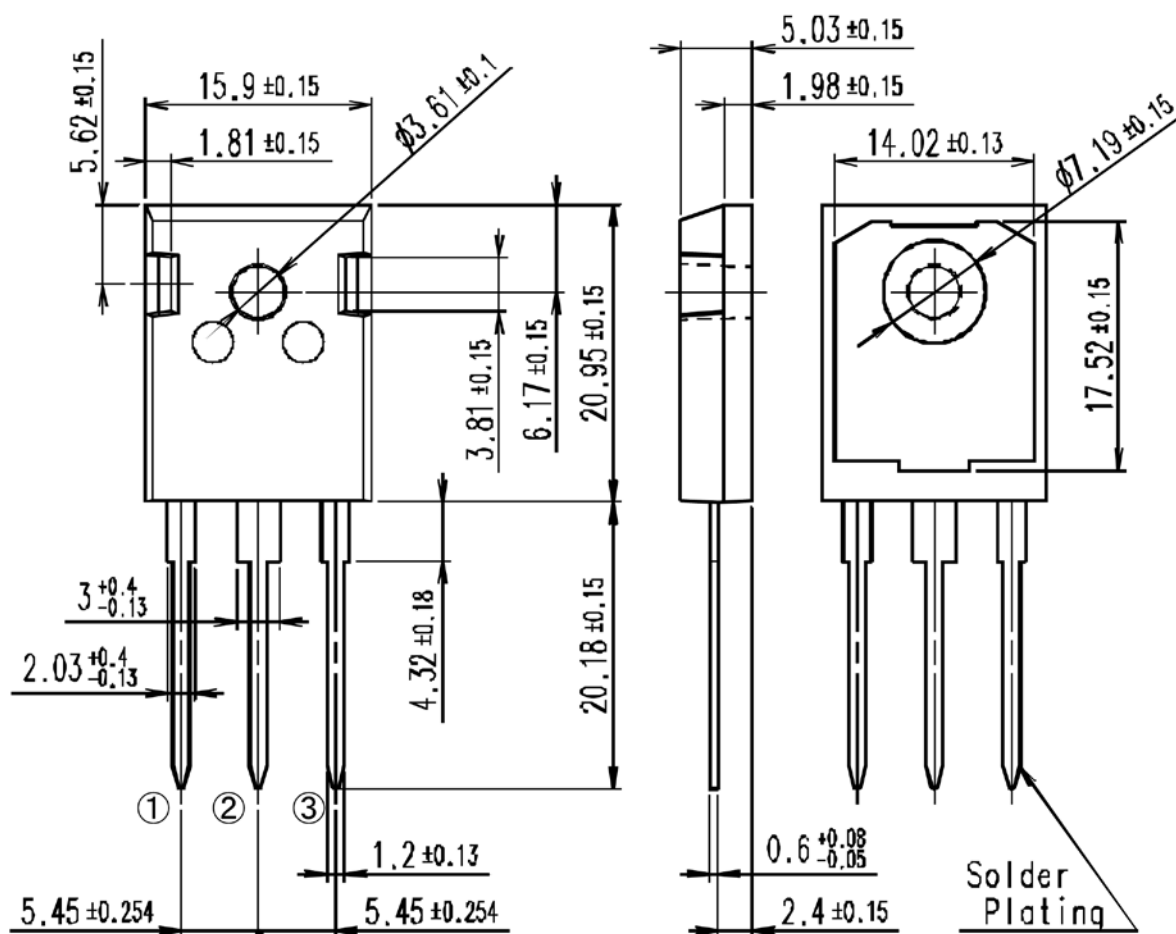
Item	Symbol	Conditions	Maximum	Units
Forward voltage***	V_F	$I_F = 30\text{A}$	2.8	V
Reverse current***	I_R	$V_R = V_{RRM}$	250	μA
Reverse recovery time***	t_{rr}	$V_R=30\text{V}, I_F = 3.0\text{A}$ $-di/dt=200\text{A}/\mu\text{s}$	0.063	μs
Thermal resistance	$R_{th(j-c)}$	Junction to case	0.397	$^{\circ}\text{C}/\text{W}$

*** 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

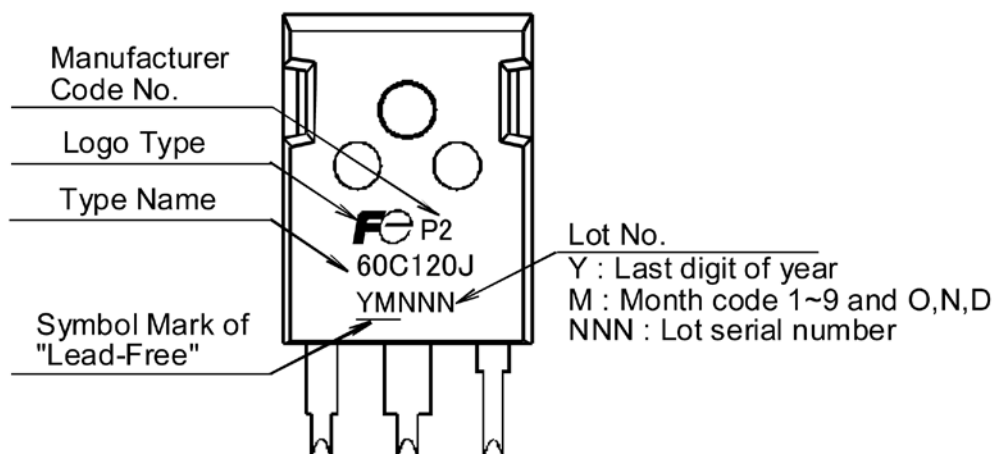


CONNECTION

- ① Anode
- ② Cathode
- ③ Anode

DIMENSIONS ARE IN MILLIMETERS.

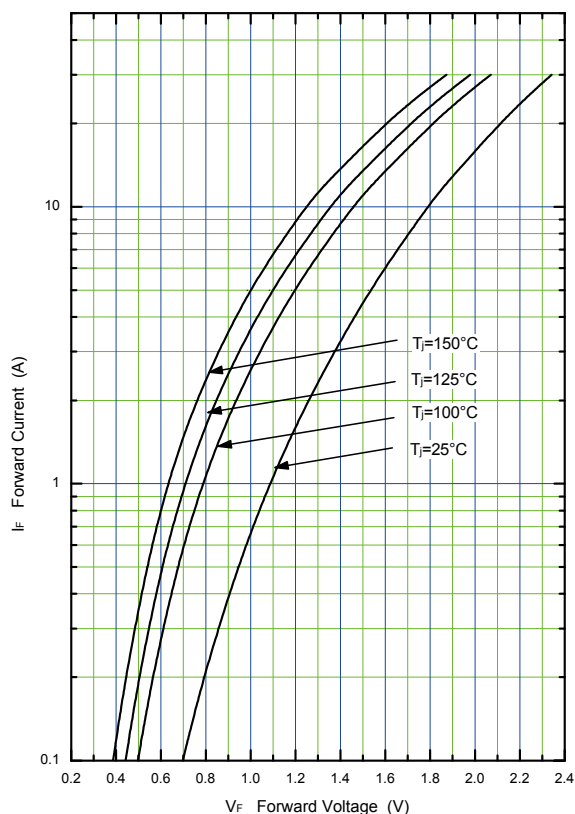
MARKING



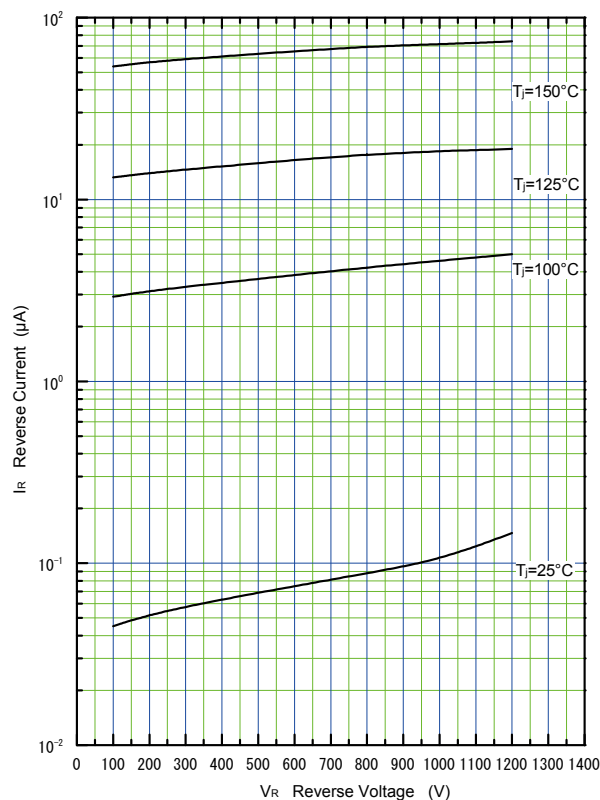
* The font (font type,size) and the logo type size might be actually different.

■ Characteristics (Representative)

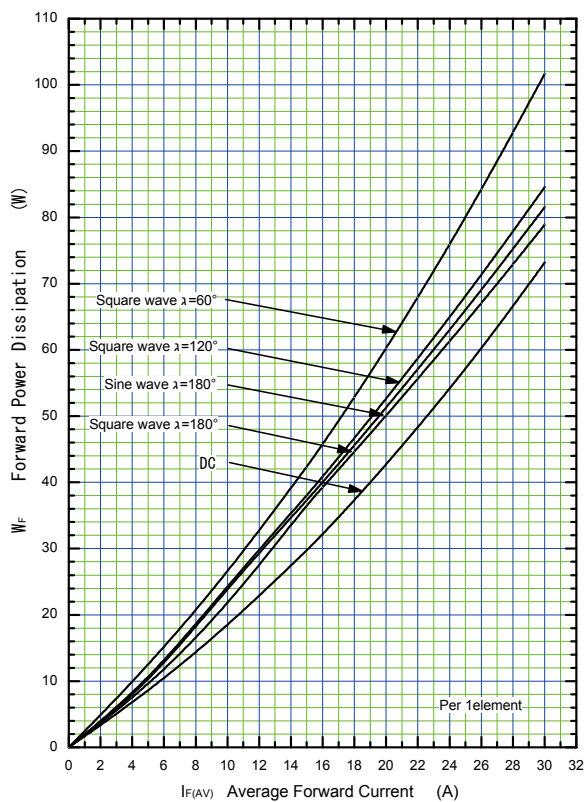
Forward Characteristic (typ.)



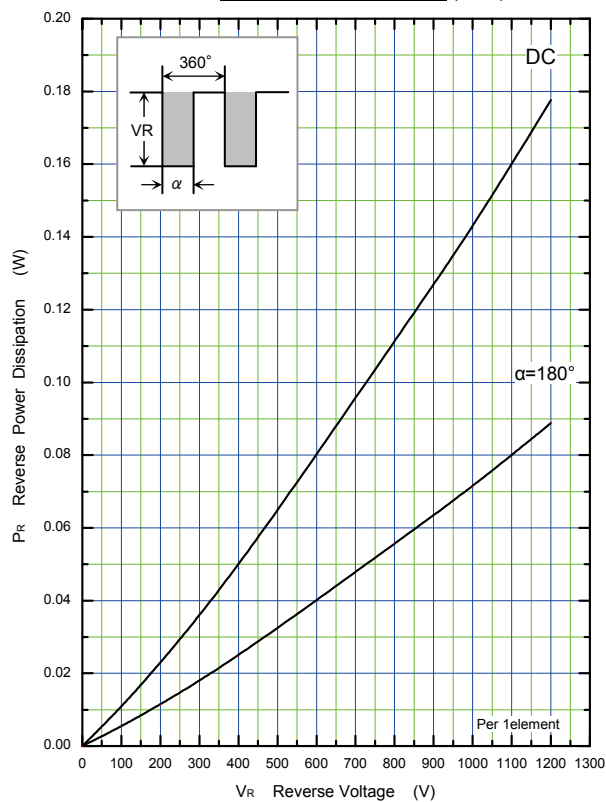
Reverse Characteristic (typ.)

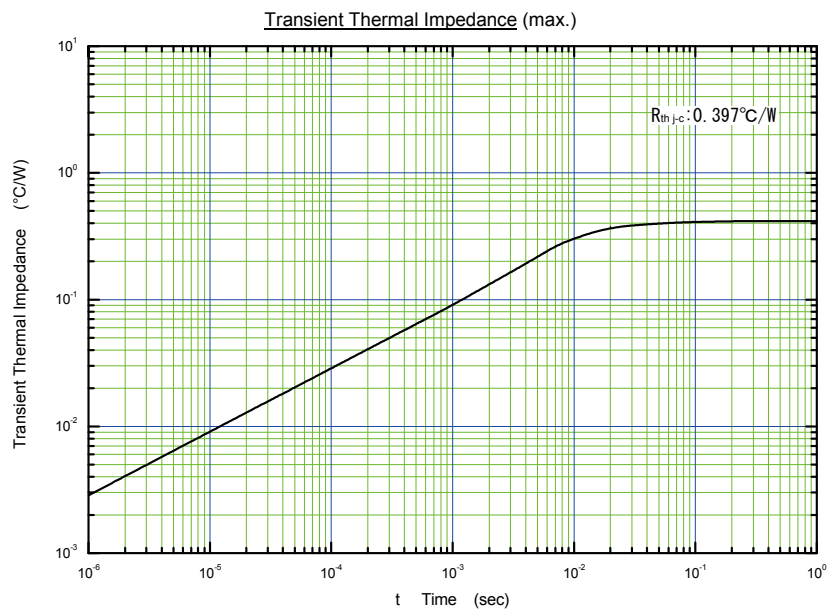
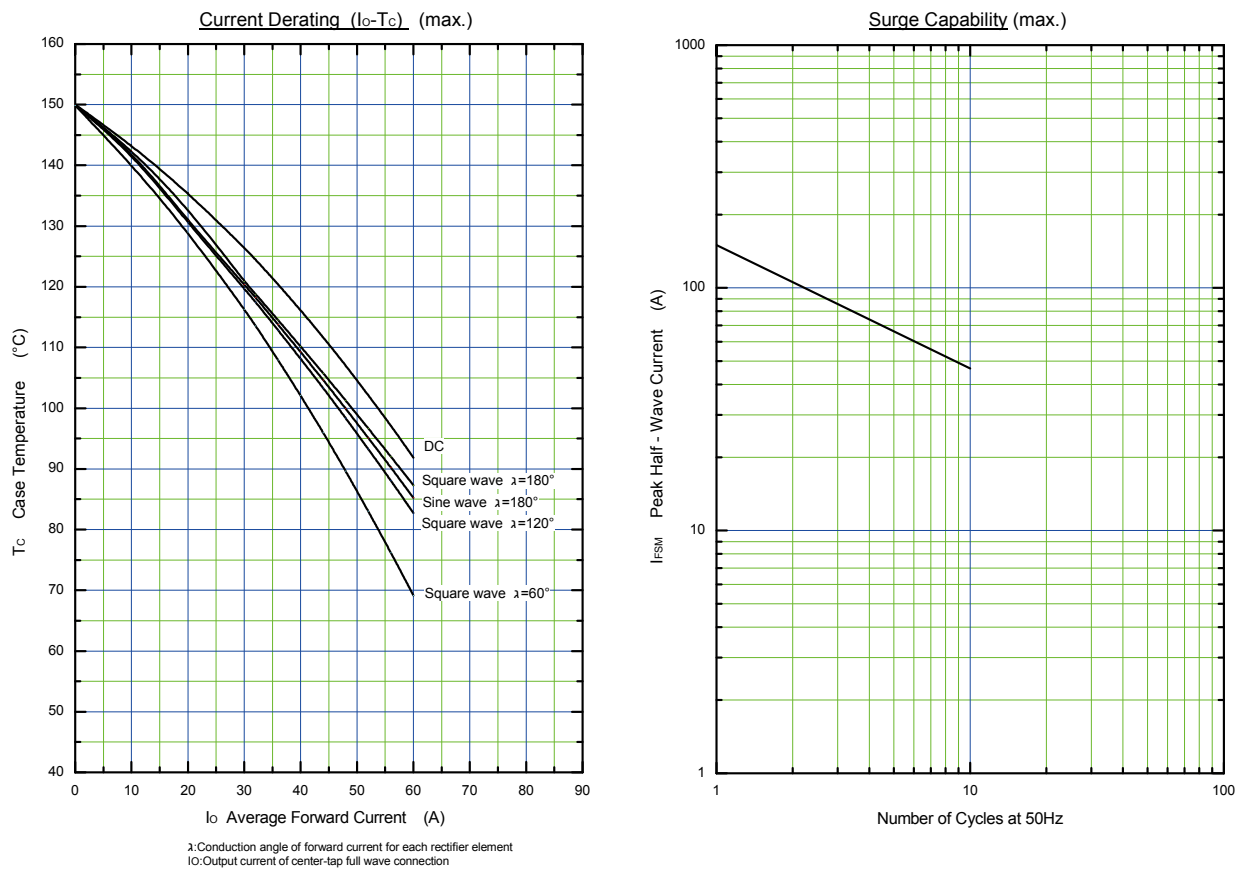


Forward Power Dissipation (max.)



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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• Emergency equipment for responding to disasters and anti-burglary devices	• Safety devices
• Medical equipment	
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• Submarine repeater equipment		
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