

FDRW60C120J(1200V, 60A)

FUJI Diode

Soft Recovery FRD Series

Maximum Rating and Characteristics

• Maximum Ratings (at T_a=25°C unless otherwise specified.)

Item	Symbol	Conditions	Ratings	Units
Repetitive peak reverse voltage	VRRM	_	1200	V
Average forward current	lo	50Hz Square wave duty =1/2 T_c = 87°C	60*	А
Non-repetitive forward surge current **	IFSM	Sine wave, 10ms 1shot	150	A
Operating junction temperature	Tj	—	+150	°C
Storage temperature	T _{stg}	—	-40~+150	°C

* Out put current of center tap full wave connection.

** Rating per element.

● Electrical Characteristics (at T₂=25°C unless otherwise specified.)

Item	Symbol	Conditions	Maximum	Units
Forward voltage***	VF	I _F = 30A	2.8	V
Reverse current***	IR	$V_{R} = V_{RRM}$	250	μA
Reverse recovery time***	trr	V _R =30V,I _F = 3.0A -di/dt=200A/us	0.063	μs
Thermal resistance	Rth(j-c)	Junction to case	0.397	°C/W

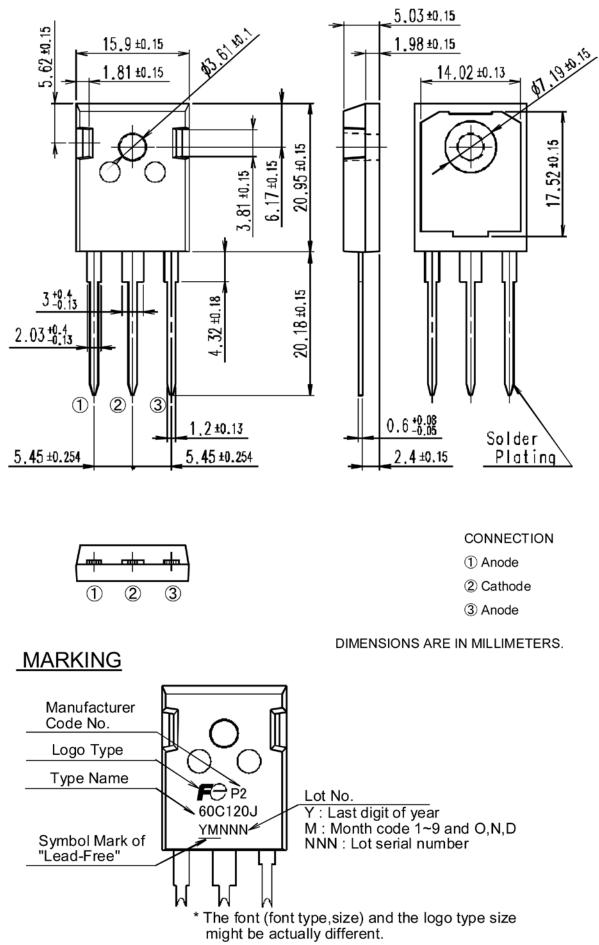
*** Rating per element.

Mechanical Characteristics

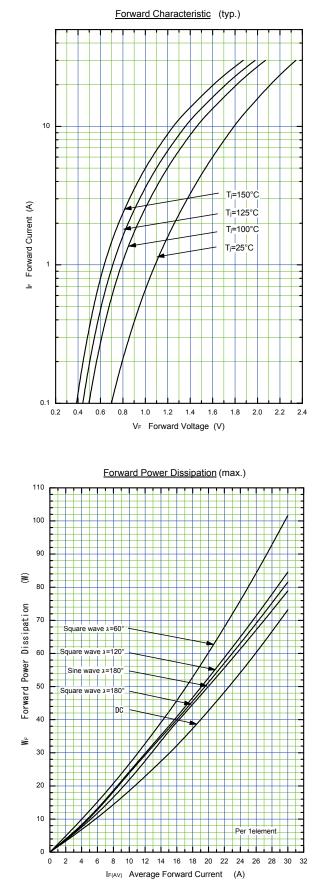
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4~0.6	N∙m
Approximate mass	_	4.9	g

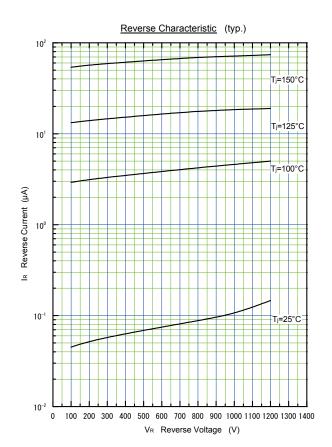
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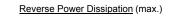
■ Outline Drawings, mm TO-247

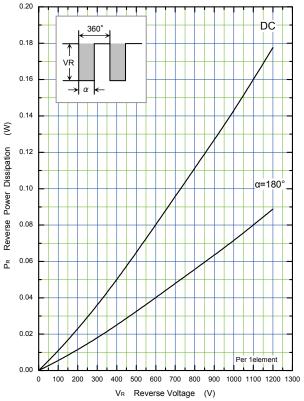


Characteristics (Representative)

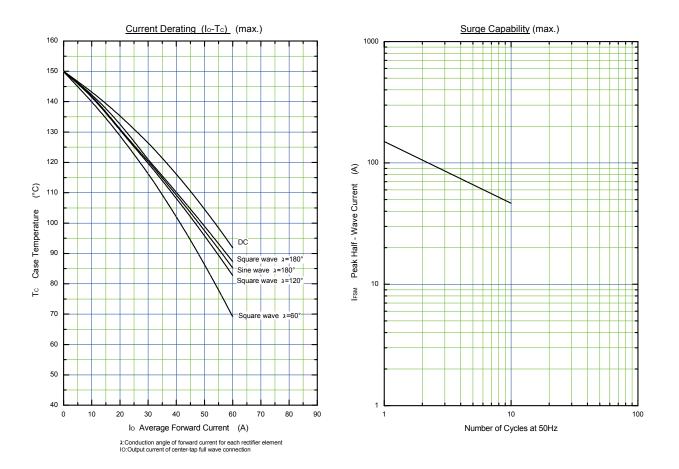


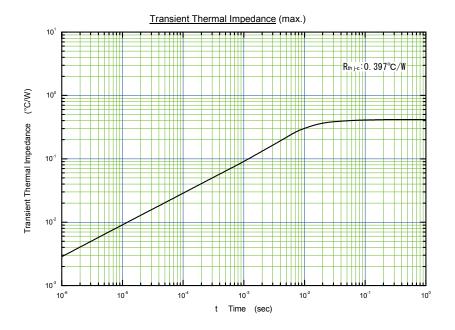






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