

FDRW15S60L(600V, 15A)

FUJI Diode

Ultra-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}	–	600	V
Average forward current	I_{FAV}	50Hz Square wave duty =1/2 $T_c = 85^\circ\text{C}$	15	A
Non-repetitive forward surge current	I_{FSM}	Sine wave, 10ms 1shot	110	A
Operating junction temperature	T_j	–	+150	$^\circ\text{C}$
Storage temperature	T_{stg}	–	-40~+150	$^\circ\text{C}$

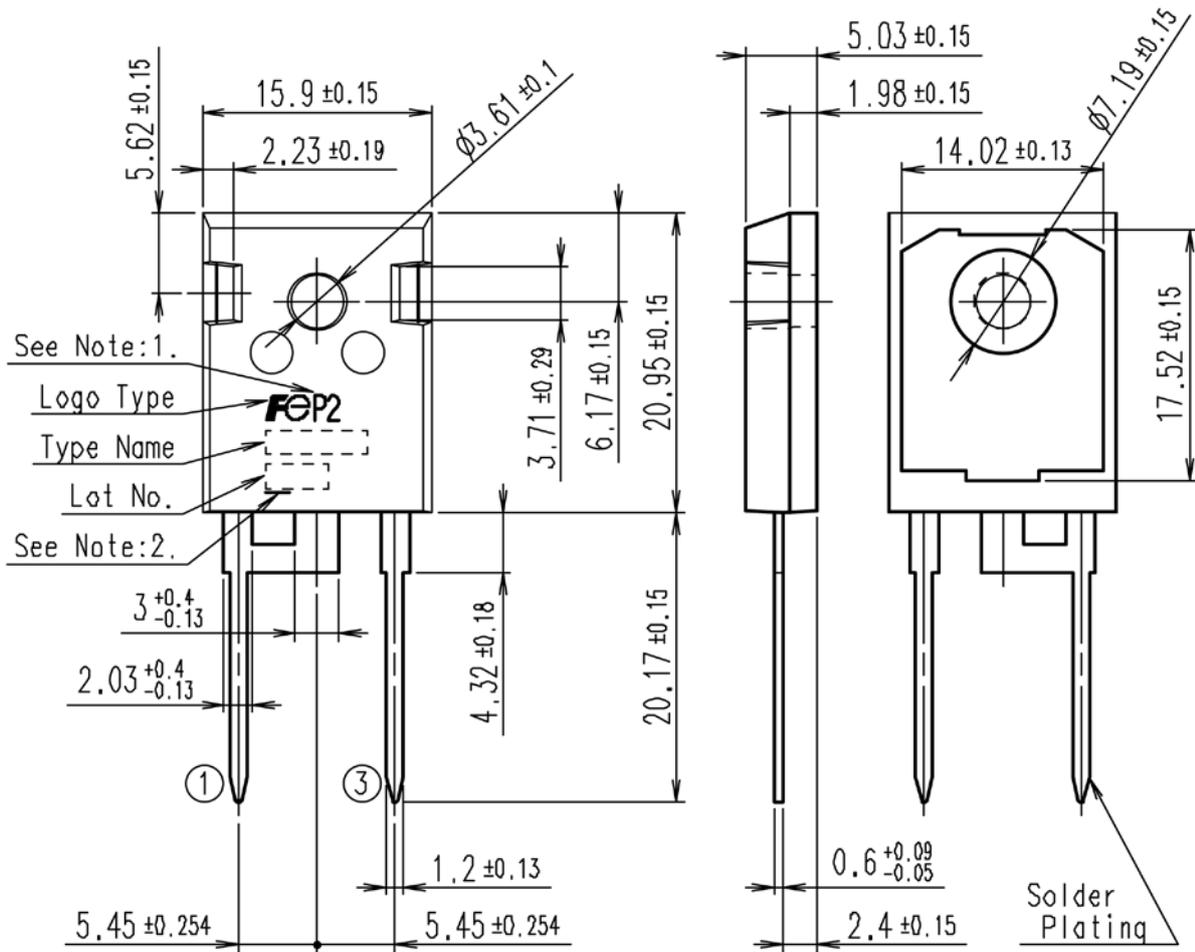
● Electrical Characteristics (at $T_a=25^\circ\text{C}$ unless otherwise specified.)

Item	Symbol	Conditions	Maximum	Units
Forward voltage	V_F	$I_F = 15\text{A}$	2.6	V
Reverse current	I_R	$V_R = V_{RRM}$	250	μA
Reverse recovery time	t_{rr}	$V_R=30\text{V}, I_F = 1.5\text{A}$ $-di/dt=200\text{A}/\mu\text{s}$	0.031	μs
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0	$^\circ\text{C}/\text{W}$

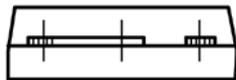
● Mechanical Characteristics

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

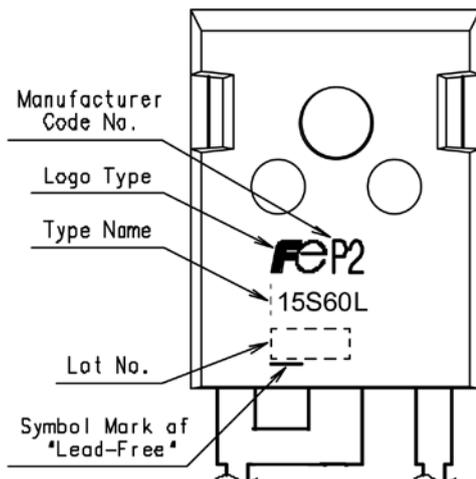
■ Outline Drawings, mm
TO-247



DIMENSIONS ARE IN MILLIMETERS.



MARKING

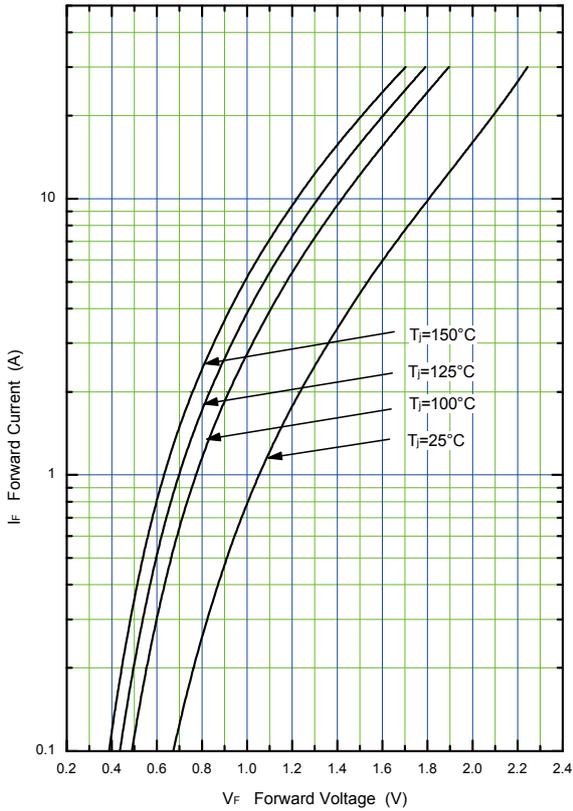


CONNECTION

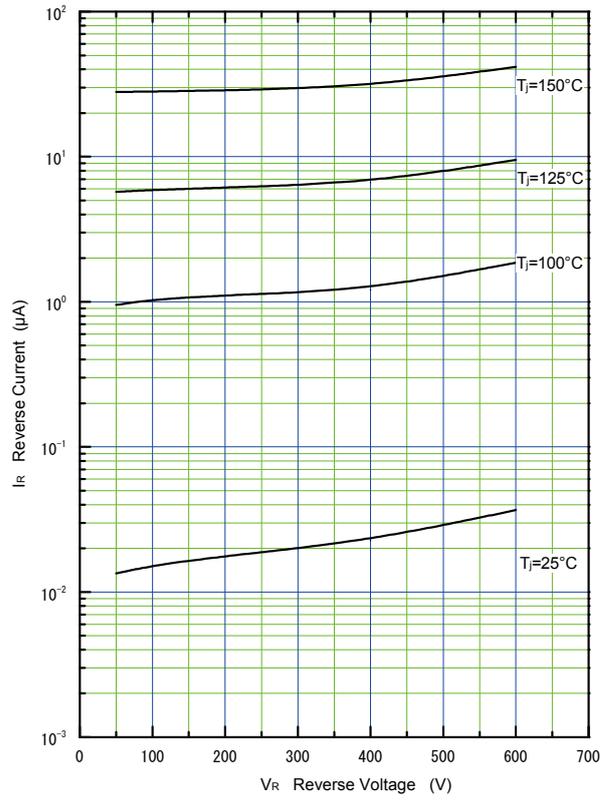
- ① CATHODE
- ③ ANODE

■ Characteristics (Representative)

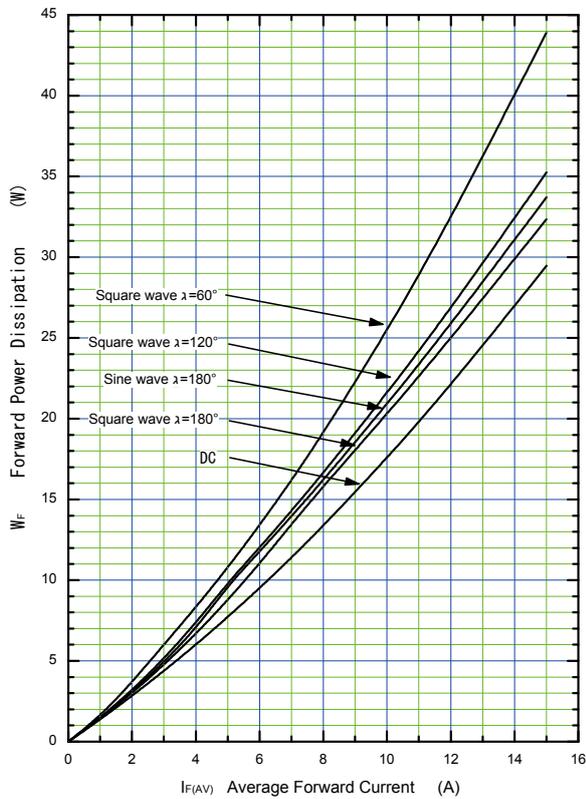
Forward Characteristic (typ.)



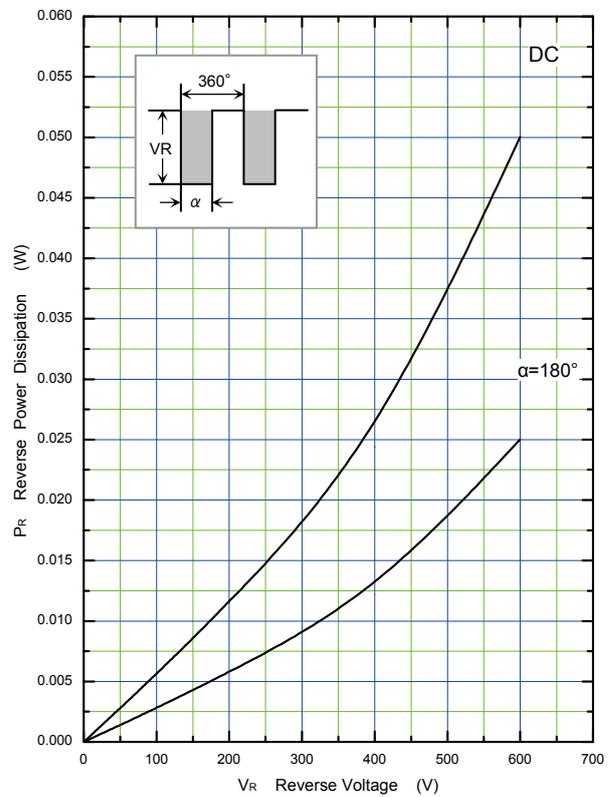
Reverse Characteristic (typ.)

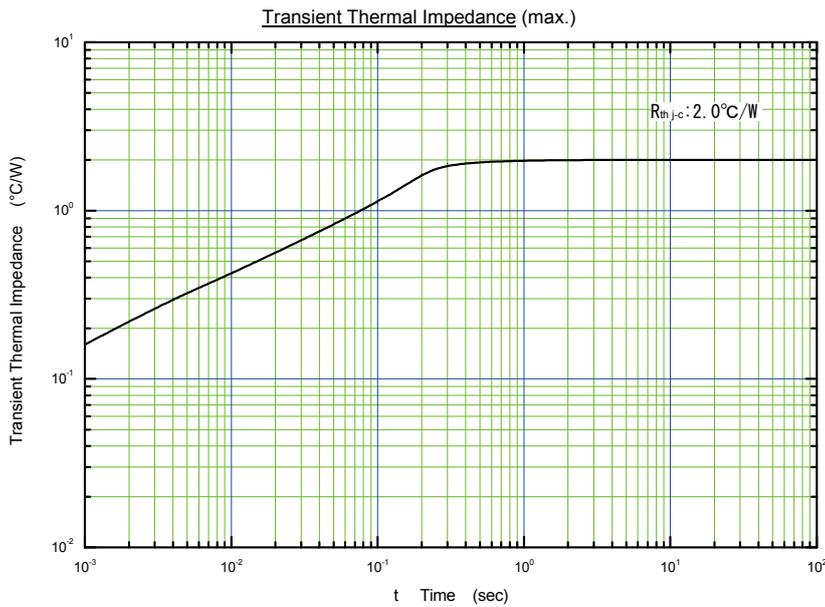
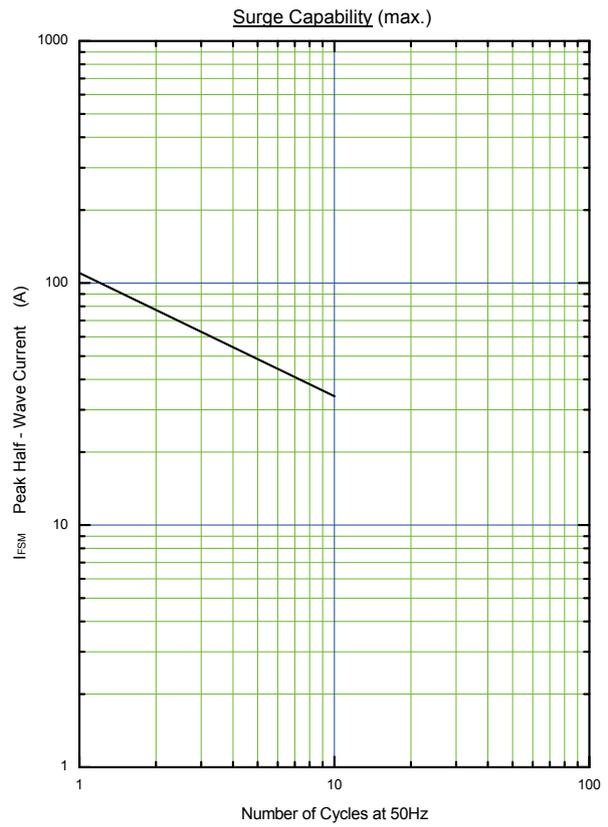
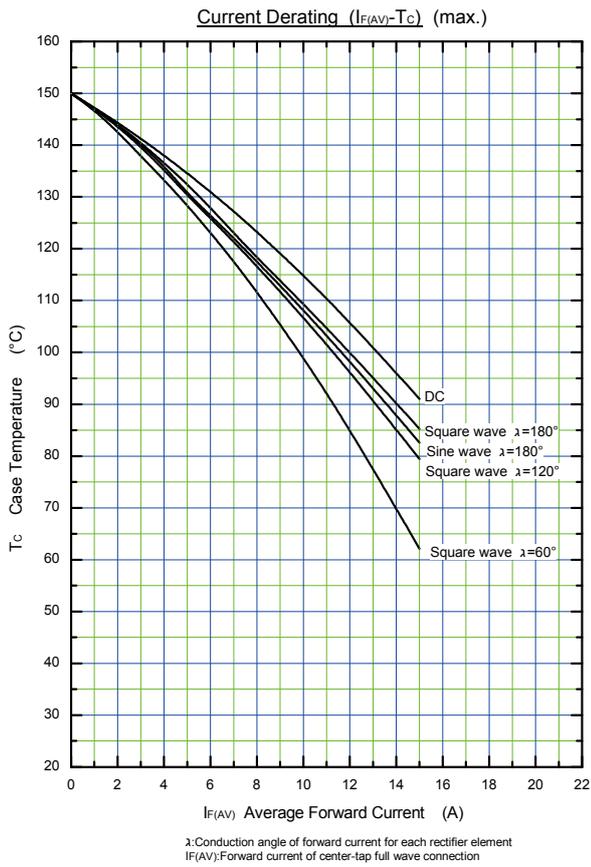


Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)





WARNING

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 - Measurement equipment
 - Machine tools
 - Audiovisual equipment
 - Electrical home appliances
 - Personal equipment
 - Industrial robots etc.
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 - Traffic-signal control equipment
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 - Emergency equipment for responding to disasters and anti-burglary devices
 - Safety devices
 - Medical equipment
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