

# ERC80-004R

FUJI Diode

## Schottky Barrier Diode

### ■ Maximum Rating and Characteristics

#### ● Maximum ratings (at Ta=25°C unless otherwise specified.)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak surge reverse voltage	$V_{RSM}$	tw=500ns, duty=1/40	48	V
Repetitive peak reverse voltage	$V_{RRM}$	-	40	V
Average forward current	$I_{fav}$	50Hz Square wave duty =1/2 Tc = 122°C	5	A
Non-repetitive forward surge current	$I_{FSM}$	Sine wave, 10ms 1shot	120	A
Operating junction temperature	Tj	-	150	°C
Storage temperature	Tstg	-	-40 to +150	°C

#### ● Electrical characteristics (at Ta=25°C unless otherwise specified.)

Item	Symbols	Conditions	Maximum	Units
Forward voltage***	$V_F$	$I_F = 5 A$	0.55	V
Reverse current***	$I_R$	$V_R = V_{RRM}$	5	mA
Thermal resistance	Rth(j-c)	Junction to case	5	°C/W

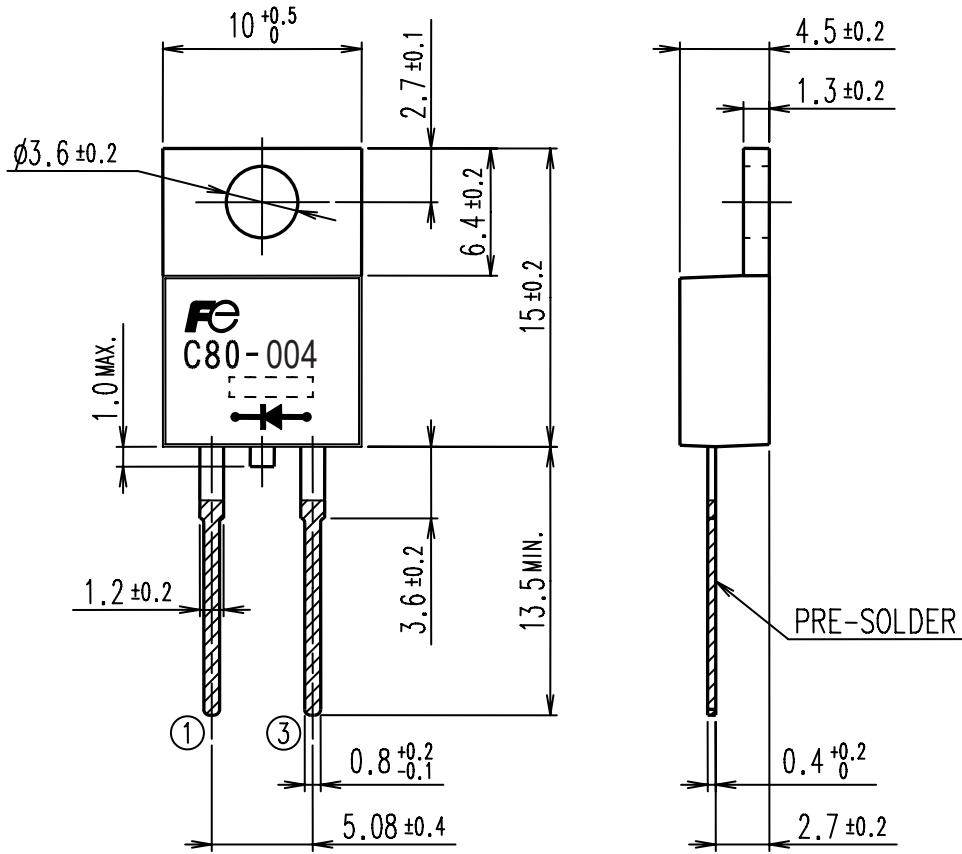
Note\*\*\* Rating per element

#### ● Mechanical characteristics

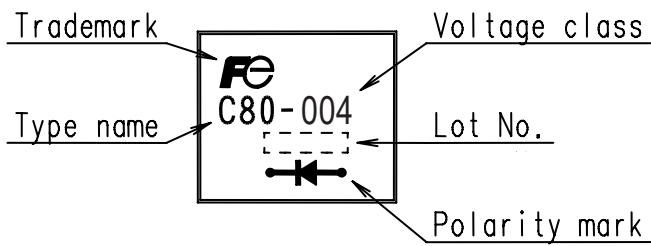
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass	-	2	g

■ Outline Drawings [mm]

OUT VIEW



MARKING

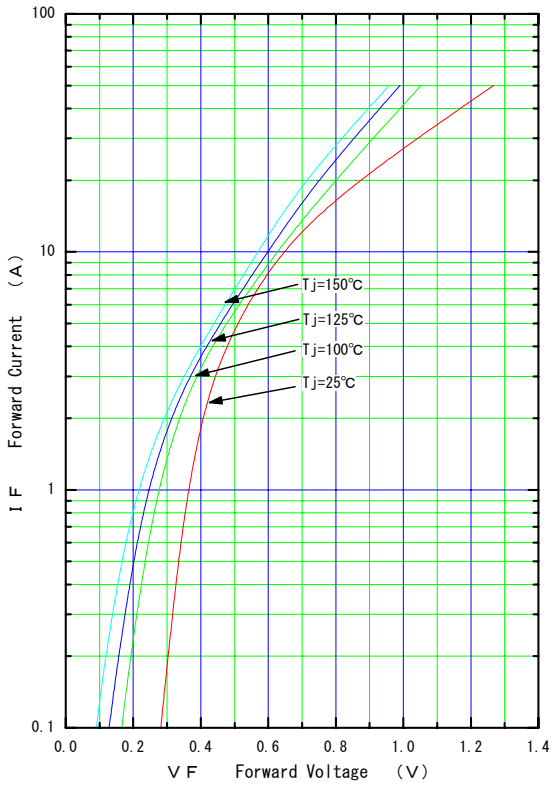


CONNECTION

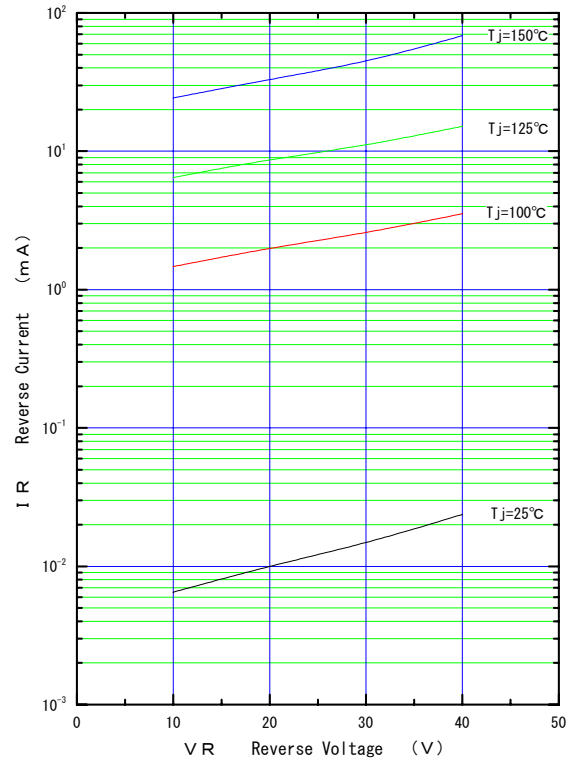


UNIT : mm

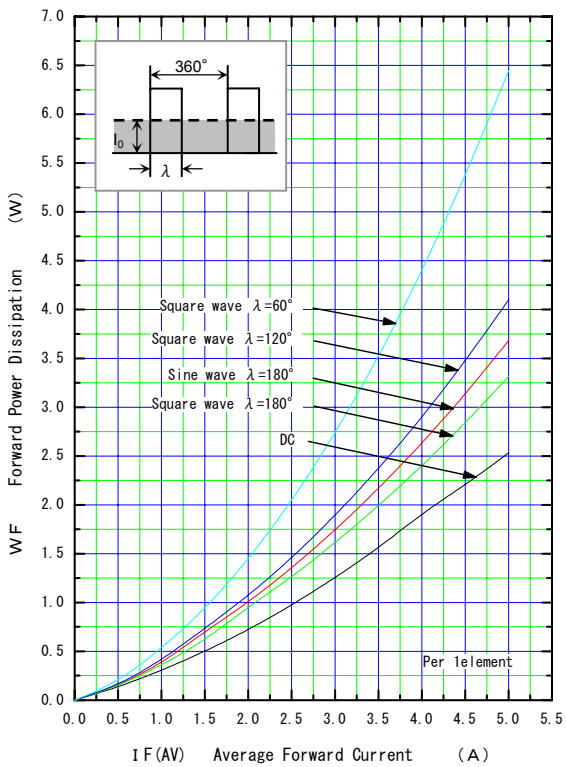
Forward Characteristic (typ.)



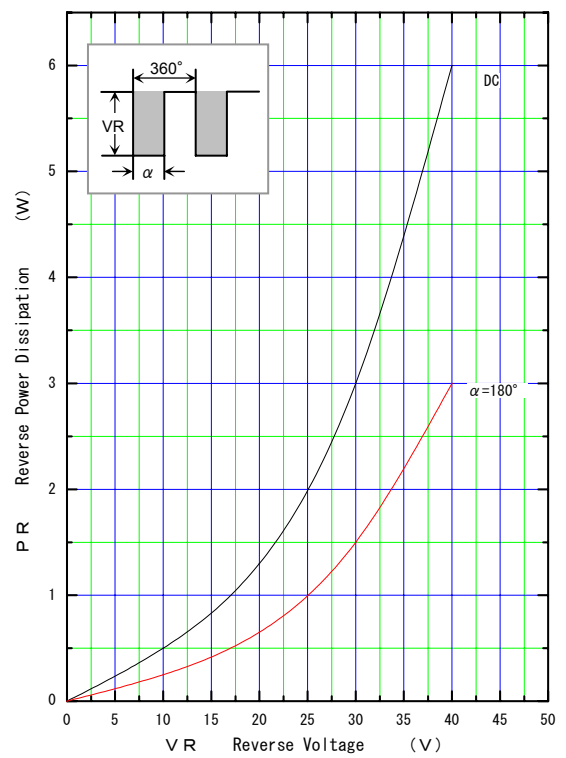
Reverse Characteristic (typ.)



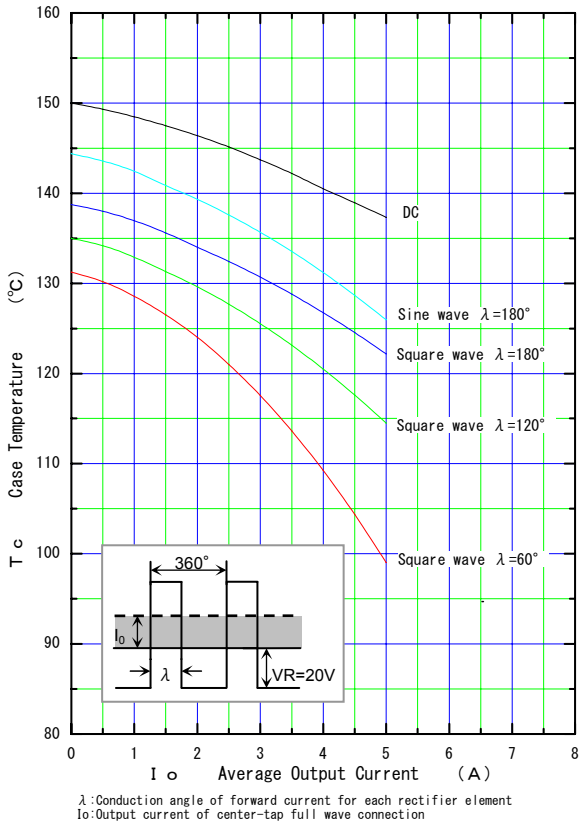
Forward Power Dissipation (max.)



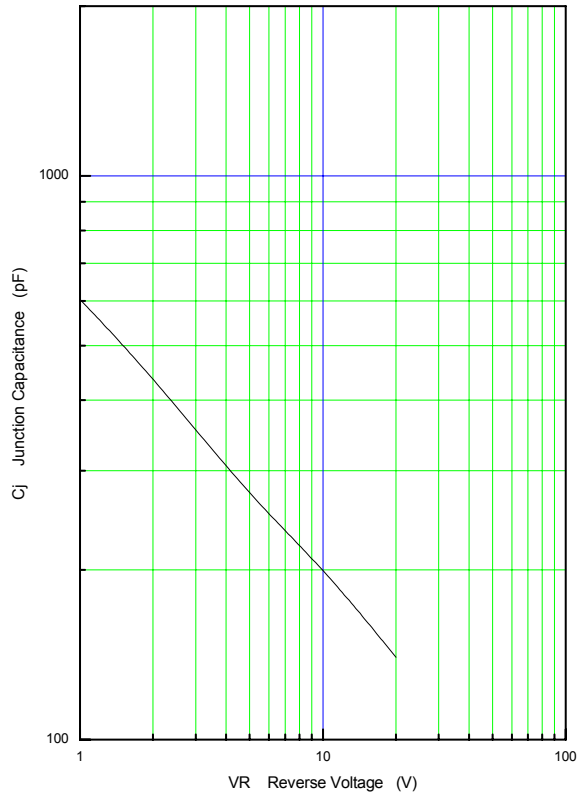
Reverse Power Dissipation (max.)



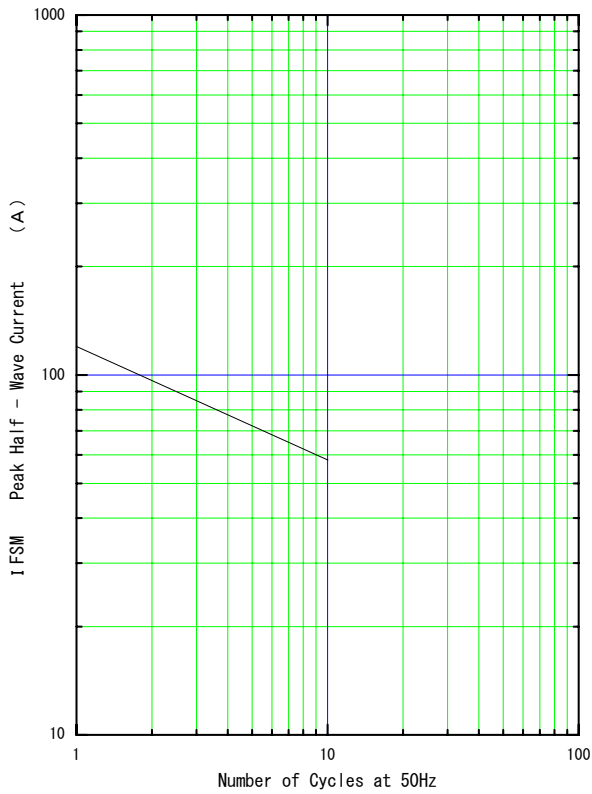
Current Derating ( $I_o-T_c$ ) (max.)



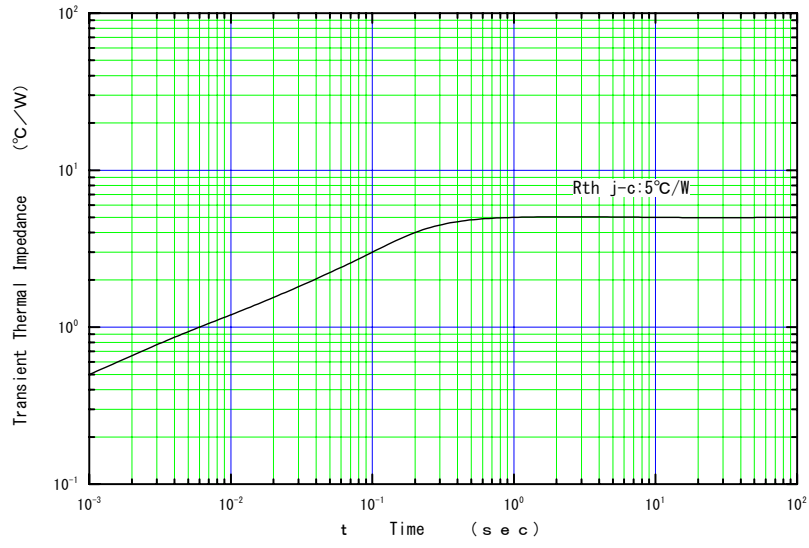
Junction Capacitance Characteristic (typ.)



Surge Capability (max.)



Transient Thermal Impedance (max.)



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  - Measurement equipment
  - Machine tools
  - Audiovisual equipment
  - Electrical home appliances
  - Personal equipment
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