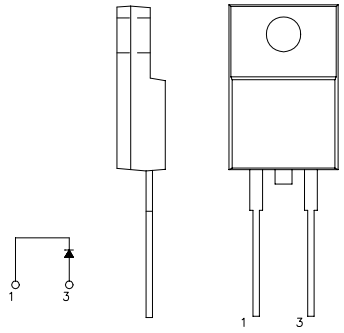
Nihon Inter Electronics Corporation

SBD Type : FSH04A10

OULINE DRAWING



FEATURES

*Similar to TO-220AC Case
*Fully Molded Isolation
*Low Forward Voltage Drop
*Low Power Loss,High Efficiency
*High Surge Capability
*Tj=150 ℃ operation

Maximum Ratings

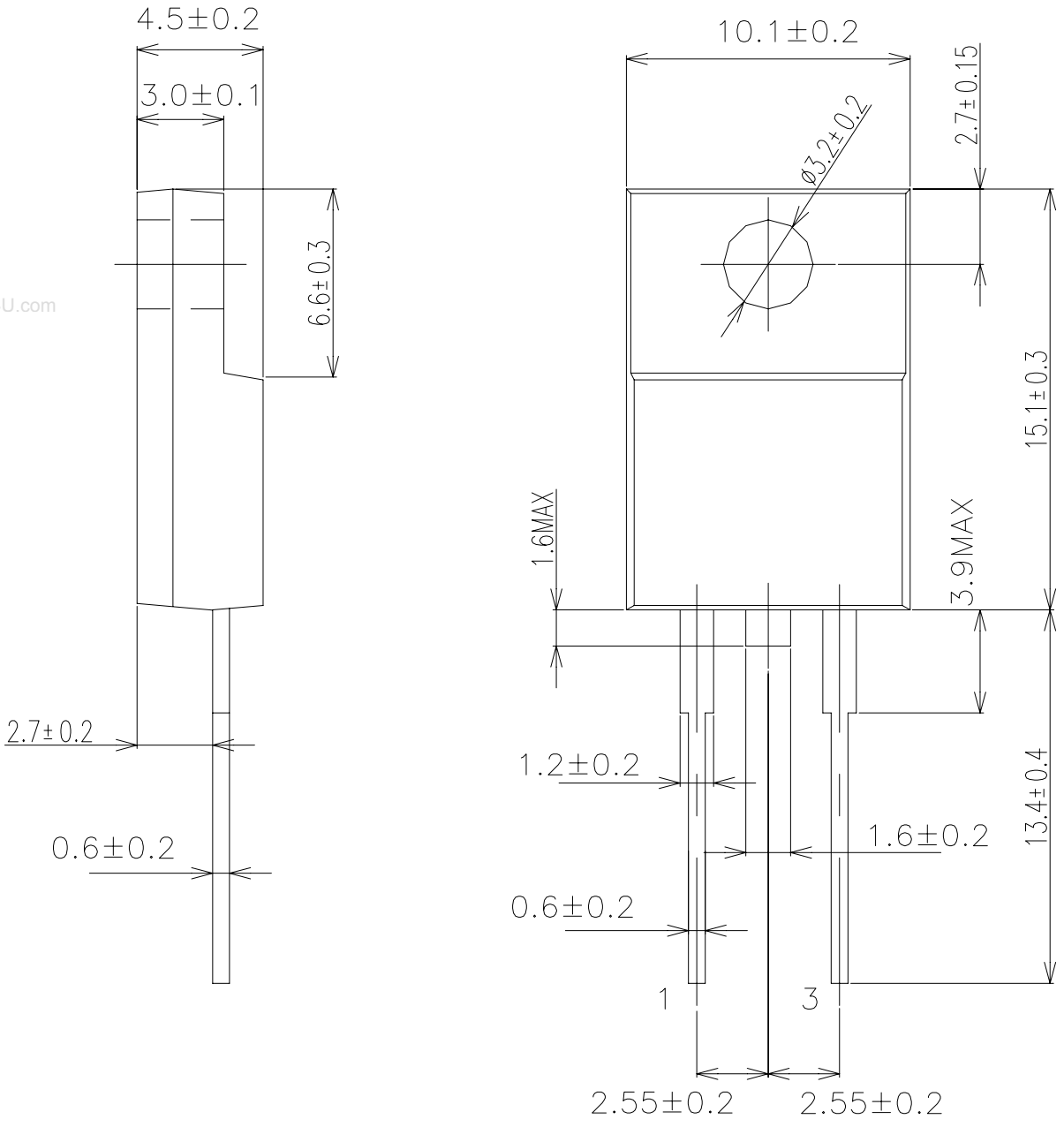
Approx Net Weight: 1.7g

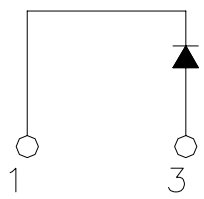
Rating	Symbol	FSH04A10			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100			V
Average Rectified Output Current	I_O	4	Tc=126℃	50 Hz half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	6.28			A
Surge Forward Current	I_{FSM}	100	50Hz Half Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T_{jw}	-40 to +150			℃
Storage Temperature Range	T_{stg}	-40 to +150			℃
Mounting torque	Ftor	recommended torque = 0.5			N•m

Electrical • Thermal Characteristics

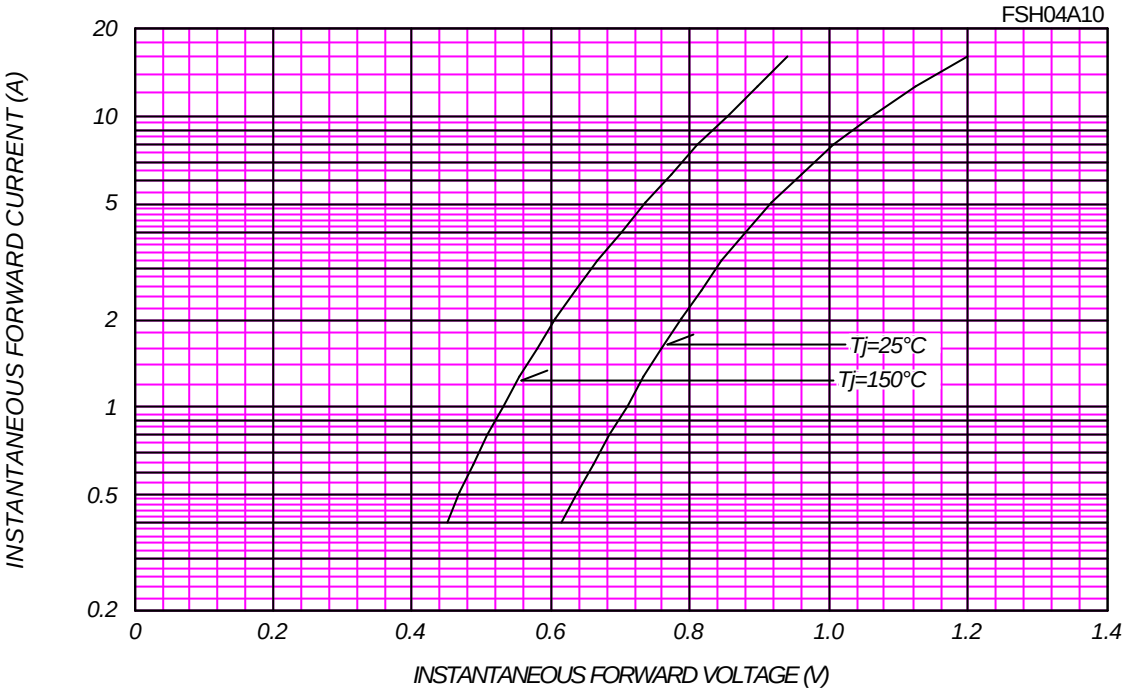
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj= 25℃, V_{RM}= V_{RRM}	-	-	1	mA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 4 A	-	-	0.88	V
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	6	℃ /W
	Rth(c-f)	Cace to Fin	-	-	1.5	℃ /W

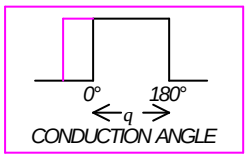
FSH_A_ OUTLINE DRAWING (Dimensions in mm)



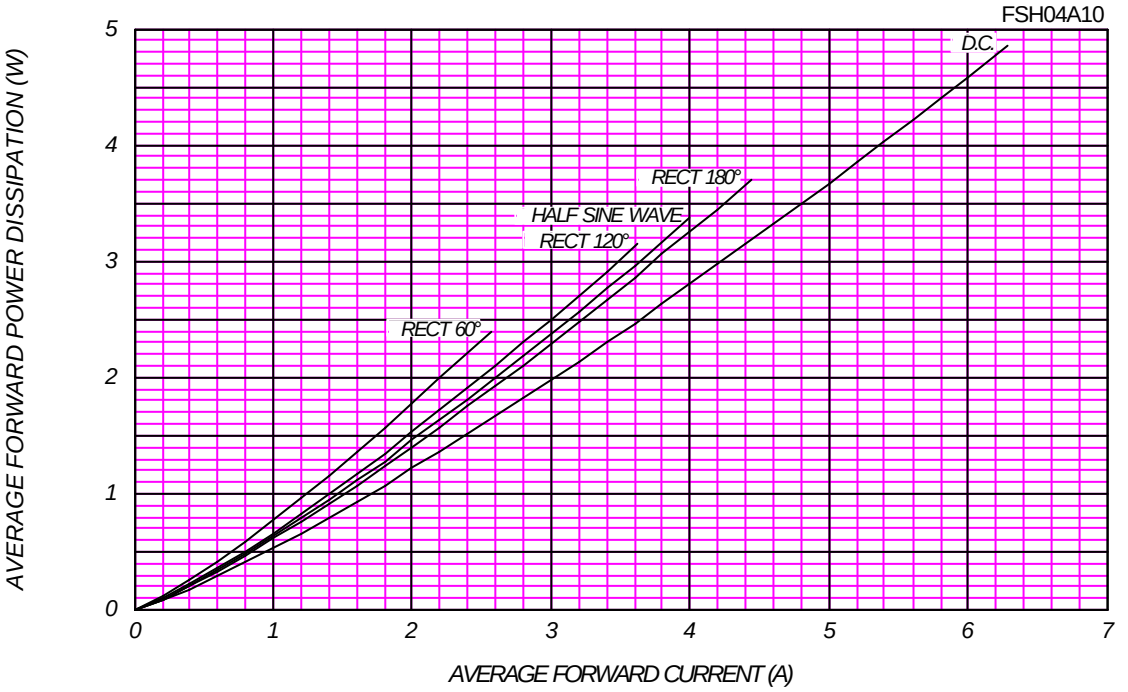


FORWARD CURRENT VS. VOLTAGE



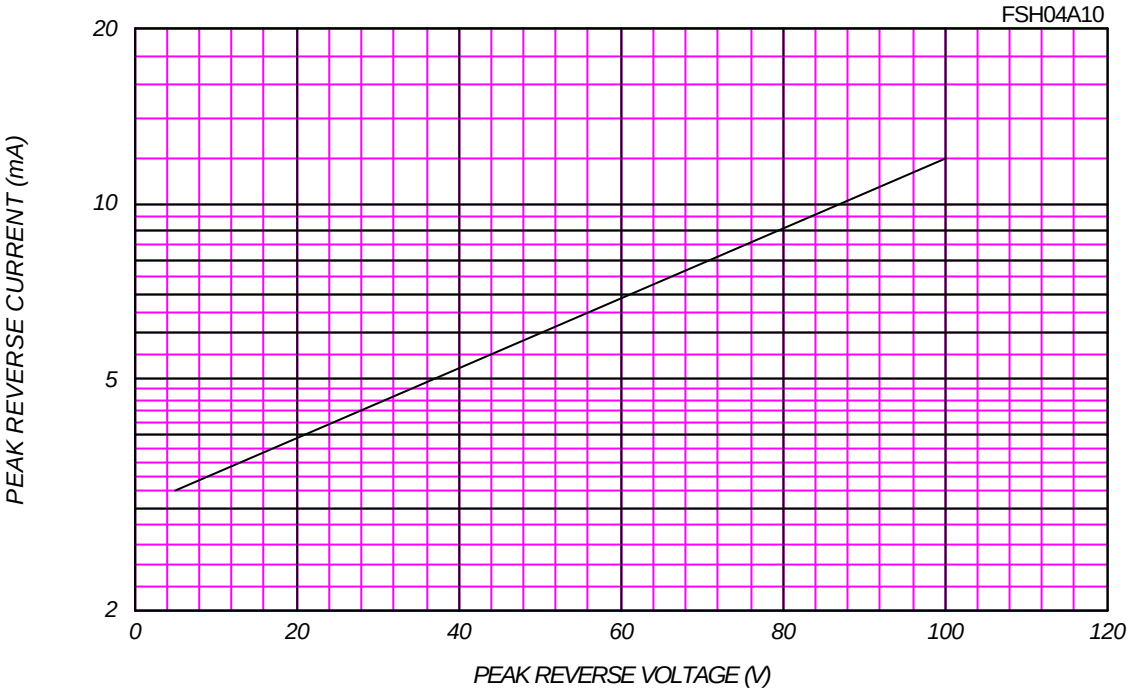


AVERAGE FORWARD POWER DISSIPATION

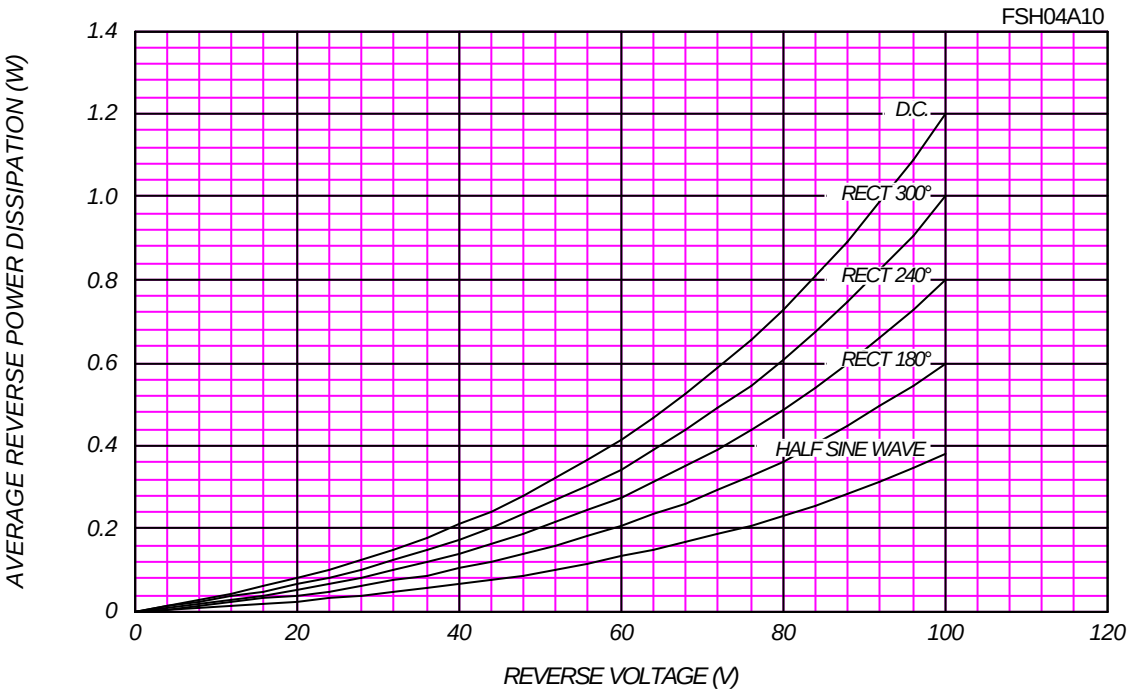


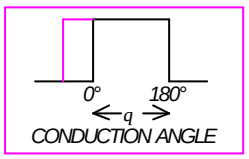
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj= 150 °C



AVERAGE REVERSE POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

V_{RM}=100V

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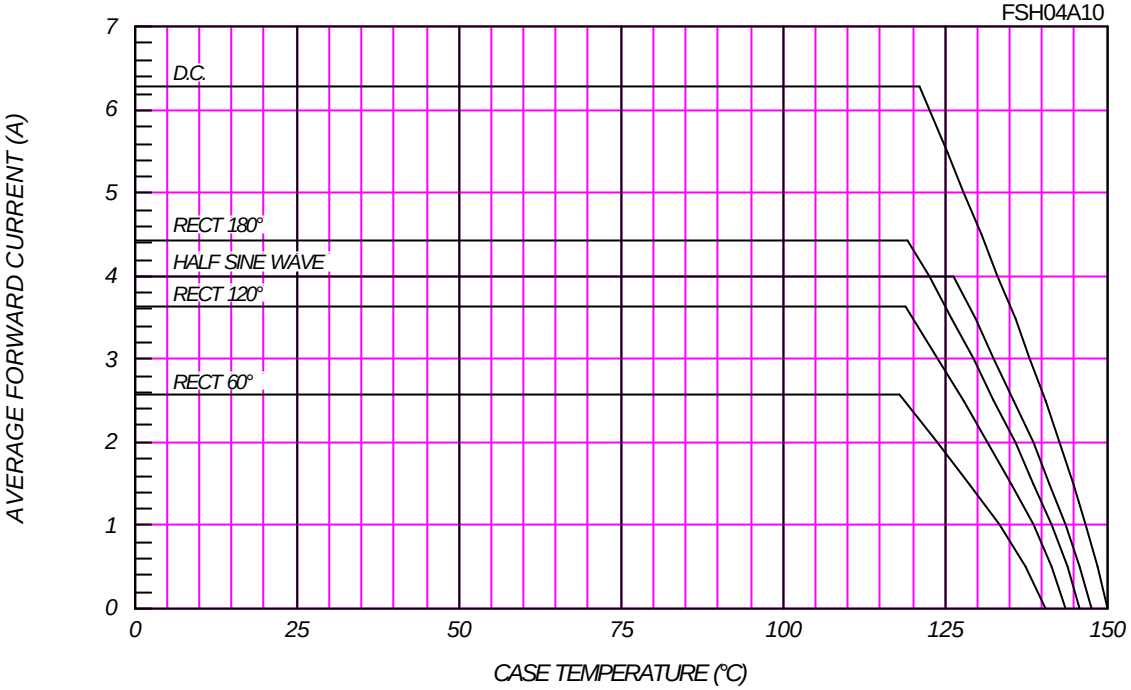

SURGE CURRENT RATINGS

f=50Hz,Sine Wave,Non-Repetitive,No Load

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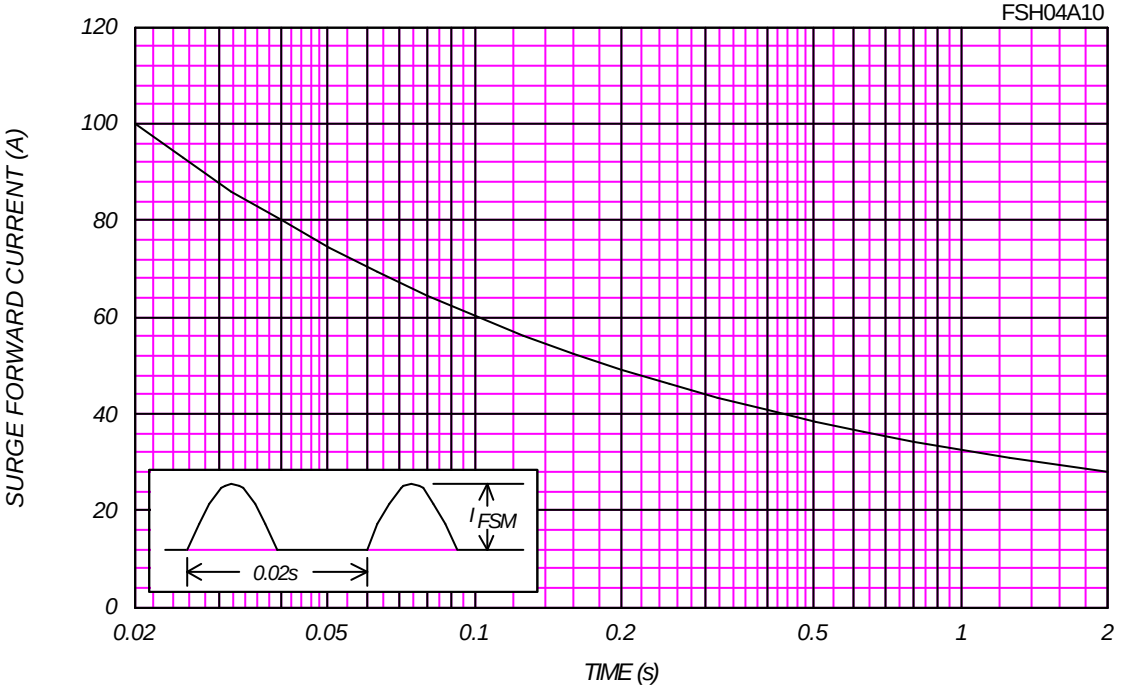

JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj=25° C,Vm=20mV$_{RMS}$,f=100kHz,Typical Value