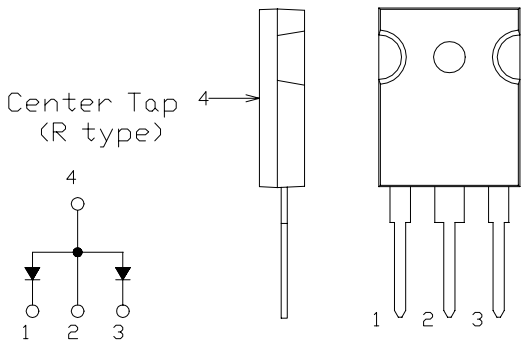
Nihon Inter Electronics Corporation

SBD Type : KRH30A15

OUTLINE DRAWING

FEATURES

*Similar to TO-247AC Case
*Dual Diodes – Anode Common
*High Voltage Low Leakage Current
*Low Forward Voltage Drop
*Low Power Loss,High Efficiency
*High Surge Capability
*Tj=150 ℃ operation



Maximum Ratings

Approx Net Weight: 5.55g

Rating	Symbol	KRH30A15			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150			V
Average Rectified Output Current	I_O	30	Tc=109℃	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	33.3			A
Surge Forward Current	I_{FSM}	250	50Hz Full 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} per Arm	-	-	2	mA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 15 A per Arm	-	-	0.91	V
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	1.5	℃ /W

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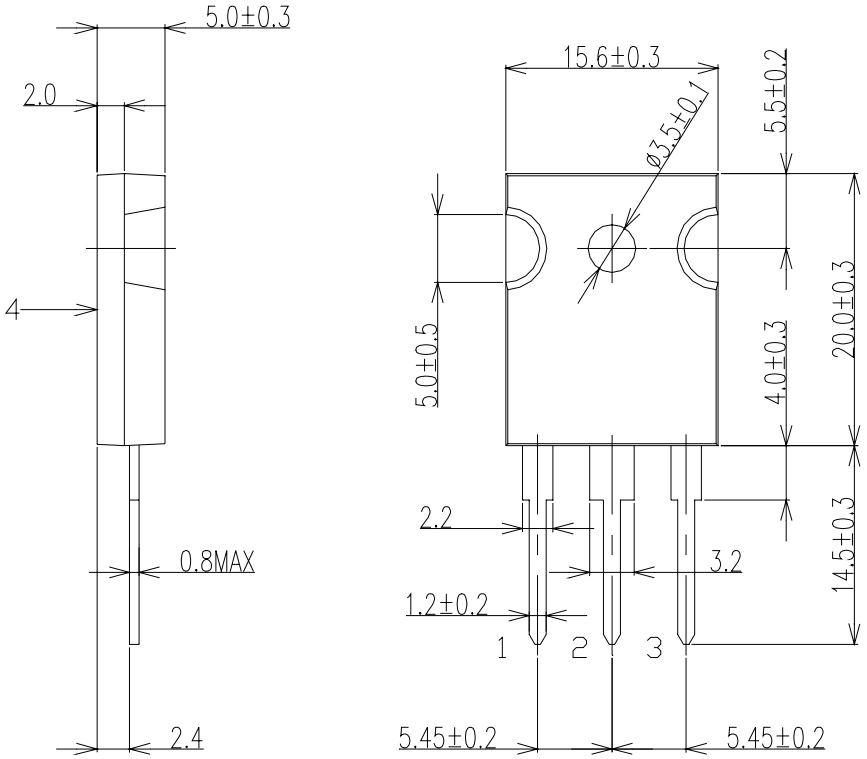
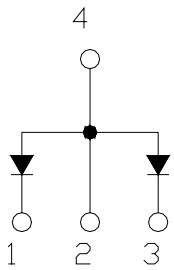
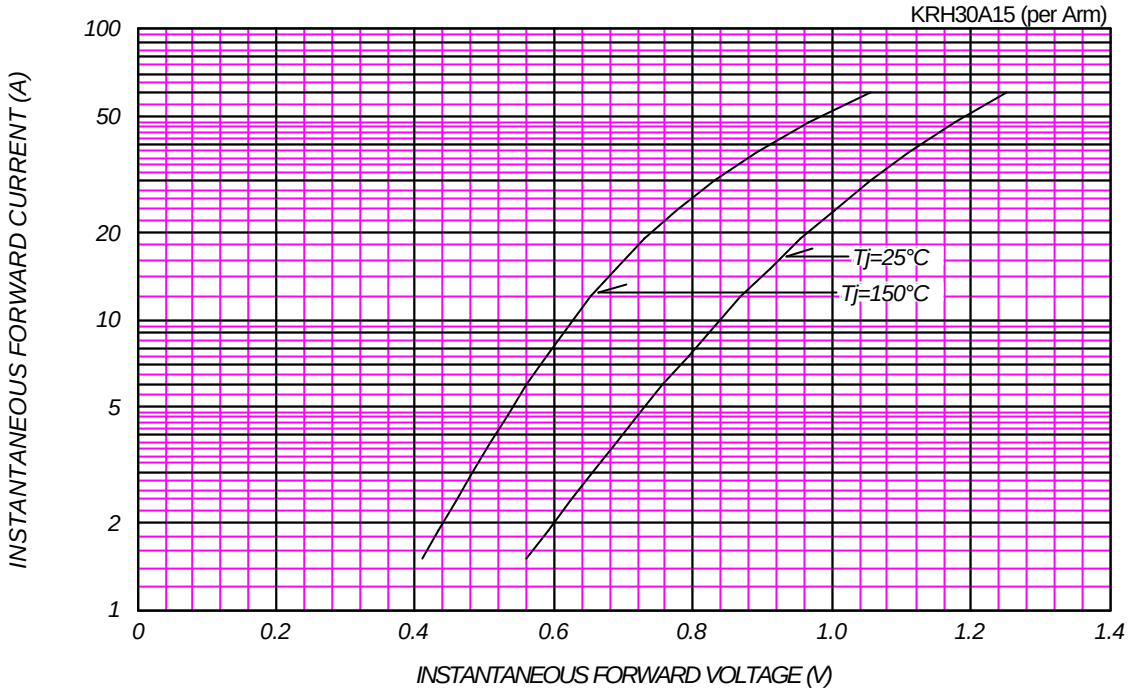
KRH30A15 OUTLINE DRAWING (Dimentions in mm)

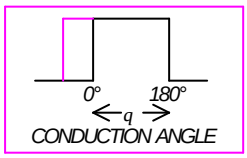


Center Tap
(R type)

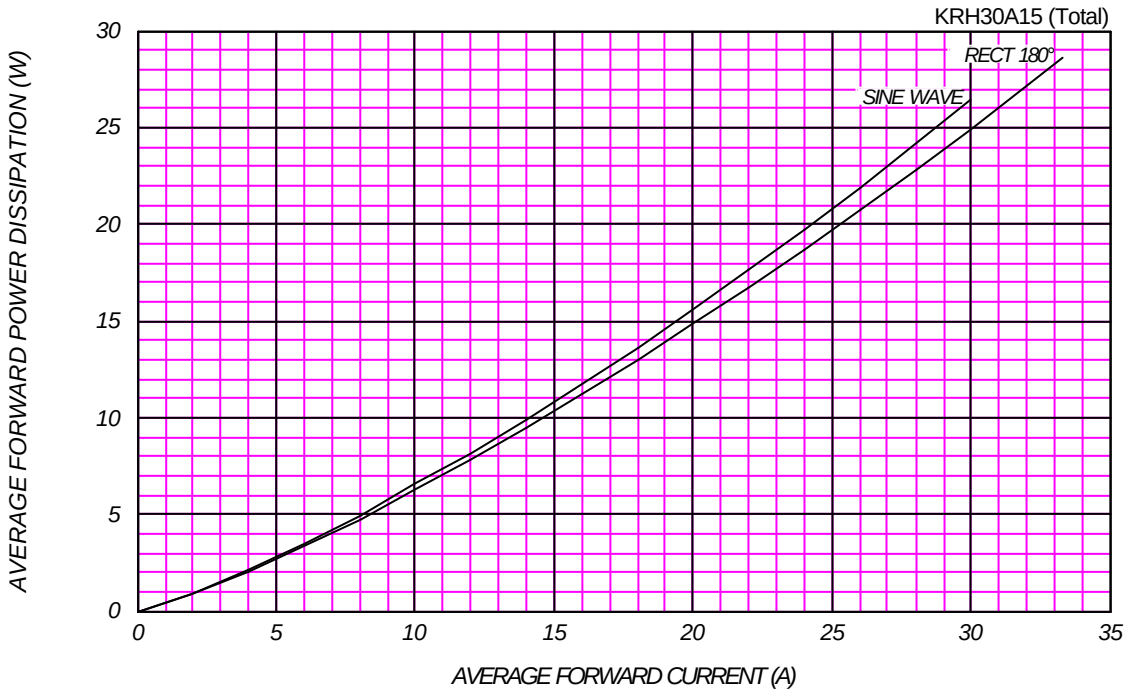


FORWARD CURRENT VS. VOLTAGE

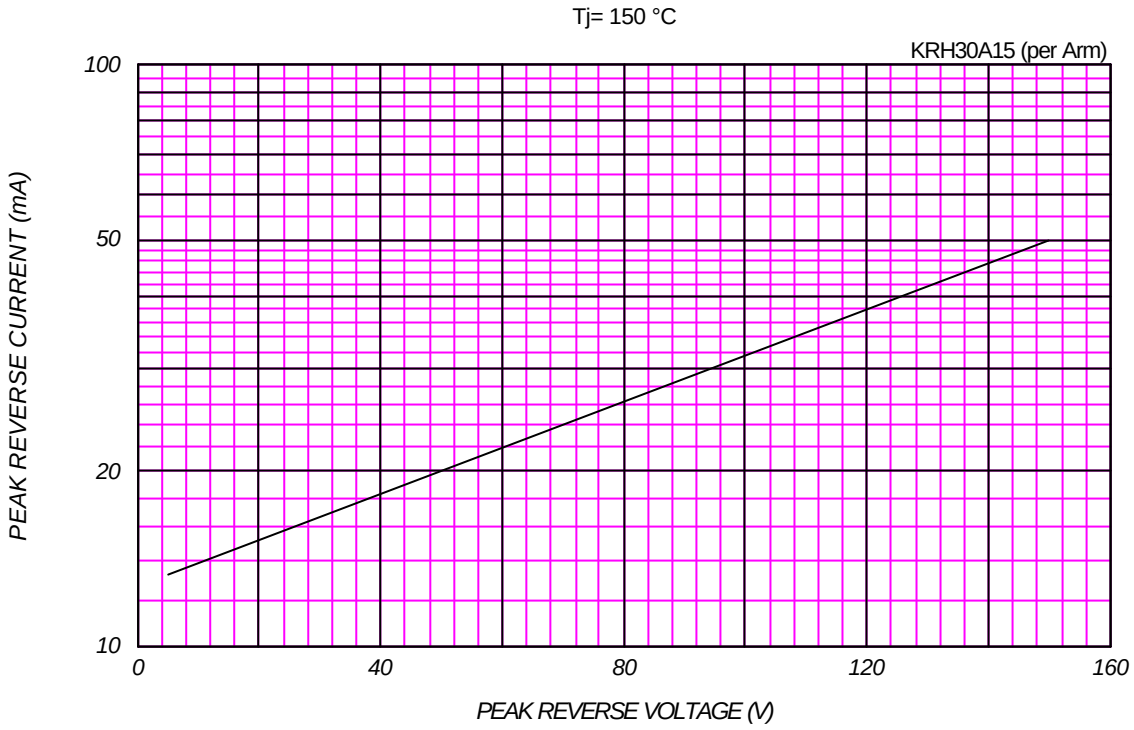




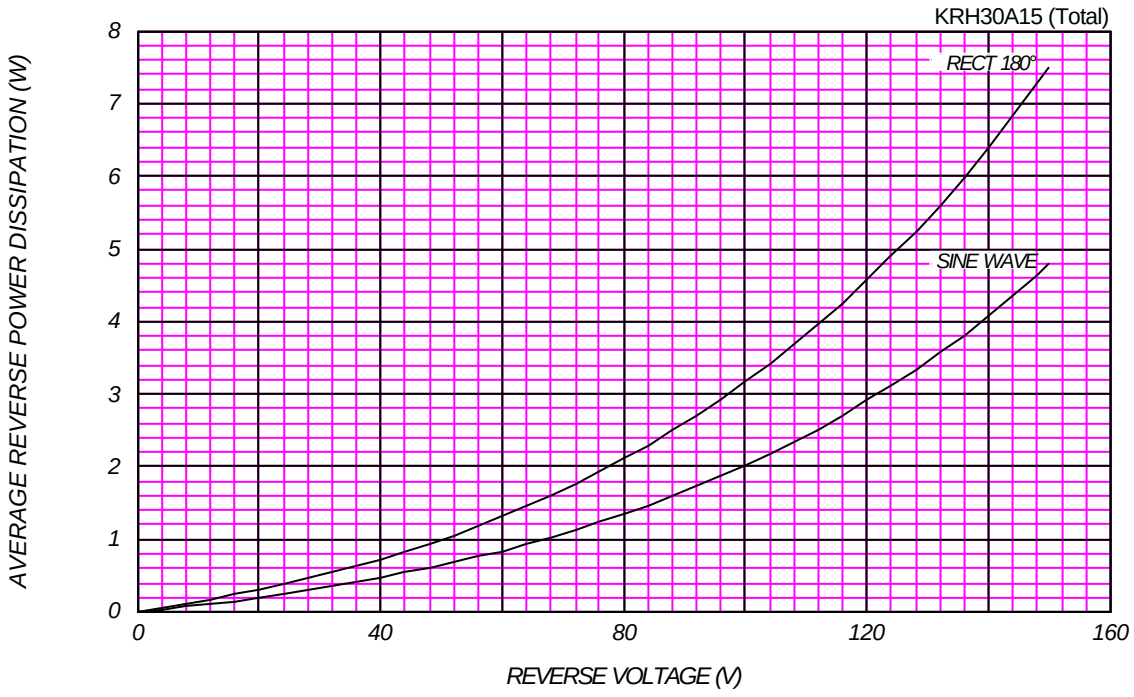
AVERAGE FORWARD POWER DISSIPATION

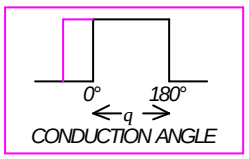


PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE



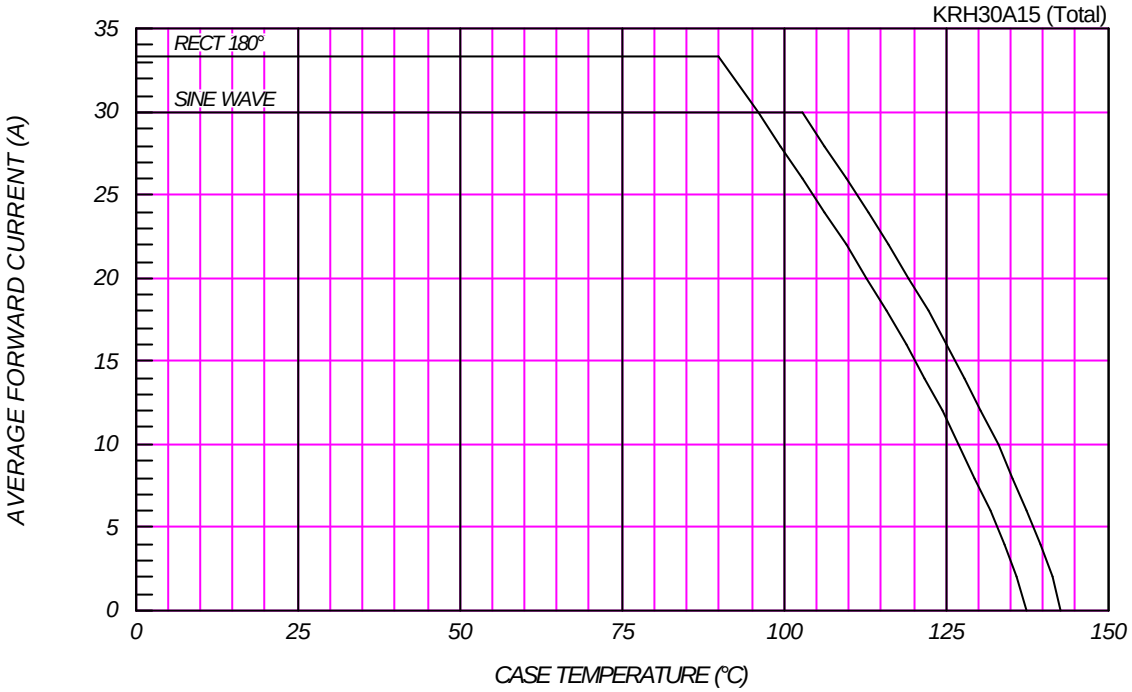
AVERAGE REVERSE POWER DISSIPATION





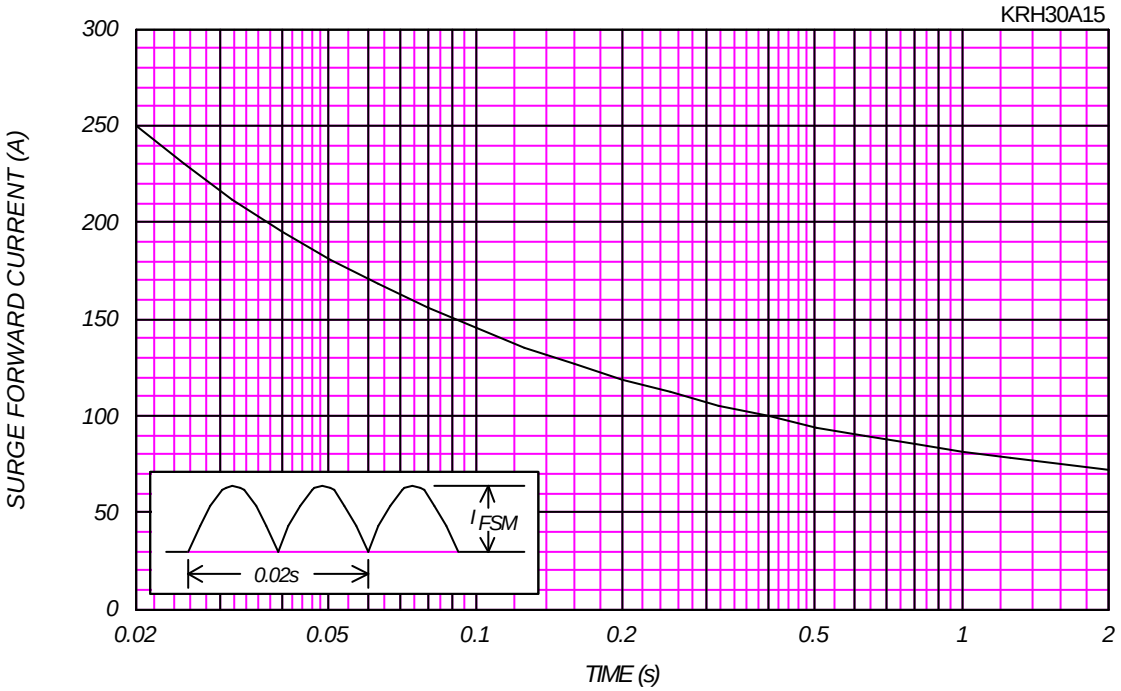
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

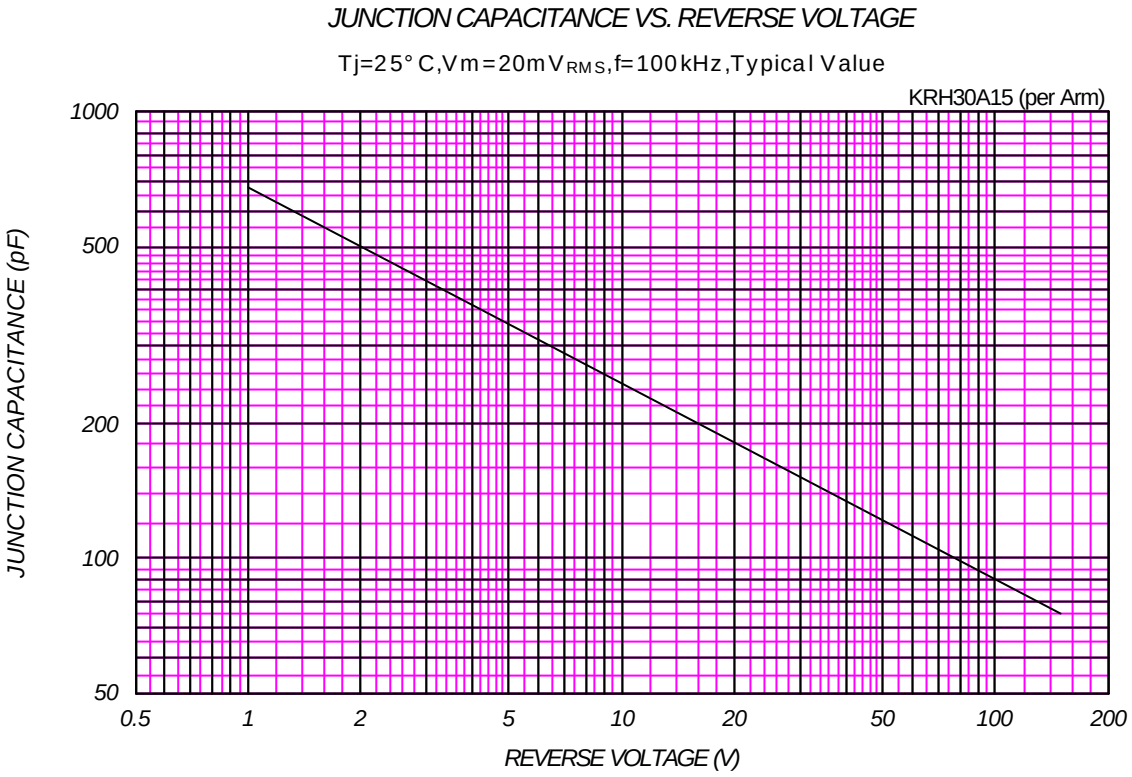
V_{RM}=150V



SURGE CURRENT RATINGS

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




JUNCTION CAPACITANCE VS. REVERSE VOLTAGE
Tj=25°C,Vm=20mVRMS,f=100kHz,Typical Value
KRH30A15 (per Arm)
1000
500
200
100
50
JUNCTION CAPACITANCE (pF)
0.5
1
2
5
10
20
50
100
200
REVERSE VOLTAGE (V)