

# SBD MODULE 30A/200V

# P2H30QH20

## FEATURES

- \* Compatible with Isolated Base SOT227
- \* Dual Separated Diodes
- \* Extremely Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability

## OUTLINE DRAWING

See the Next Page

## TYPICAL APPLICATIONS

- \* High Frequency Rectification

## Maximum Ratings

Approx Net Weight:35g

Parameter	Symbol	Type / Grade		Unit
		P2H30QH20	-	
Repetitive Peak Reverse Voltage *1	V <sub>RRM</sub>	200	-	V
Non Repetitive Peak Reverse Voltage *1	V <sub>RSM</sub>	-	-	

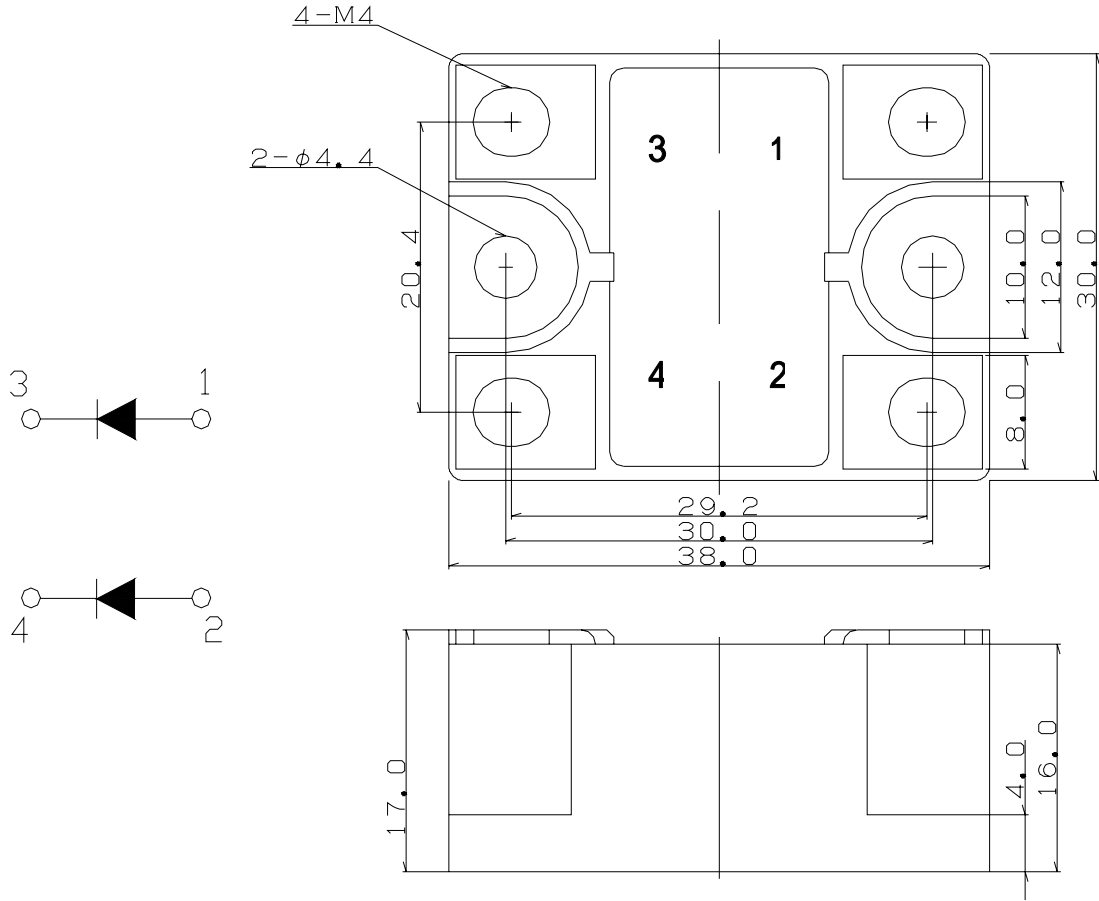
Parameter		Conditions	Max Rated Value	Unit
Average Rectified Output Current *1	I <sub>O(AV)</sub>	50Hz Half Sine Wave condition T <sub>c</sub> =88°C	30	A
Surge Forward Current *1	I <sub>FSM</sub>	50 Hz Half Sine Wave,1Pulse Non-repetitive	300	A
Operating JunctionTemperature Range	T <sub>jw</sub>		-40 to +150	°C
Storage Temperature Range	T <sub>stg</sub>		-40 to +125	°C
Isoration Voltage	V <sub>iso</sub>	Base Plate to Terminals, AC1min	2500	V
Mounting torque	Terminals	M4Screw	1.5(1.4)	N.m
	Case mounting	M4Screw with Thermal Compound	1.5(1.4)	

## Electrical • Thermal Characteristics

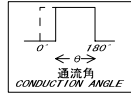
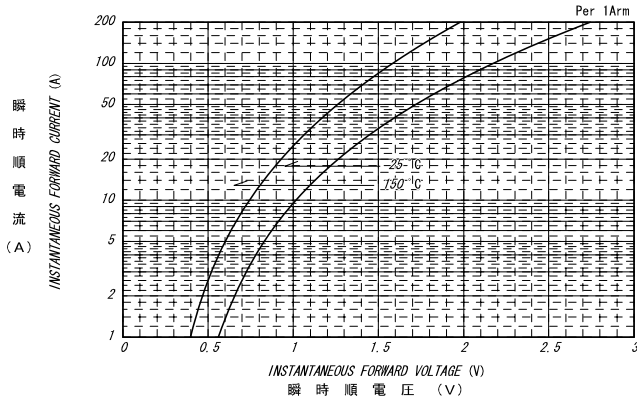
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I <sub>RM</sub>	V <sub>RM</sub> = V <sub>RRM</sub> , T <sub>j</sub> = 25°C	20	μA
Peak Forward Voltage *1	V <sub>FM</sub>	I <sub>FM</sub> = 30A, T <sub>j</sub> =25°C	1.09	V
Thermal Resistance *1	R <sub>th(j-c)</sub>	Junction to Case	1.44	°C/W
	R <sub>th(c-f)</sub>	Base Plate to Heat Sink with Thermal Compound	0.3	

\*1: Value Per 1Arm

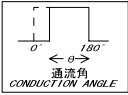
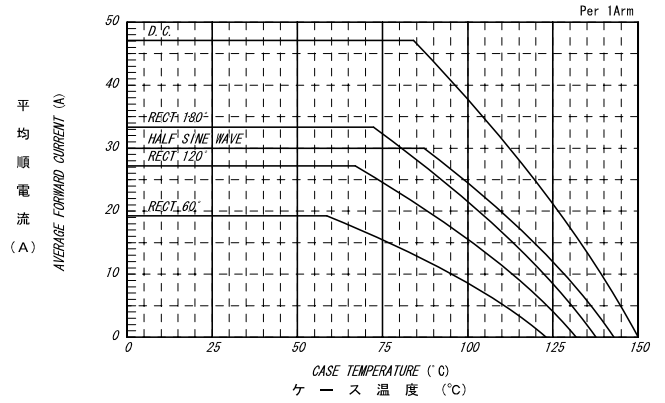
P2H30QH20 OUTLINE DRAWING (Dimensions in mm)



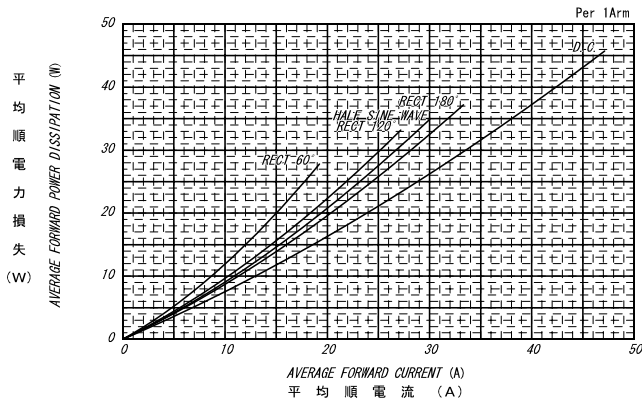
順電圧特性  
FORWARD CURRENT VS. VOLTAGE



平均順電流 - ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

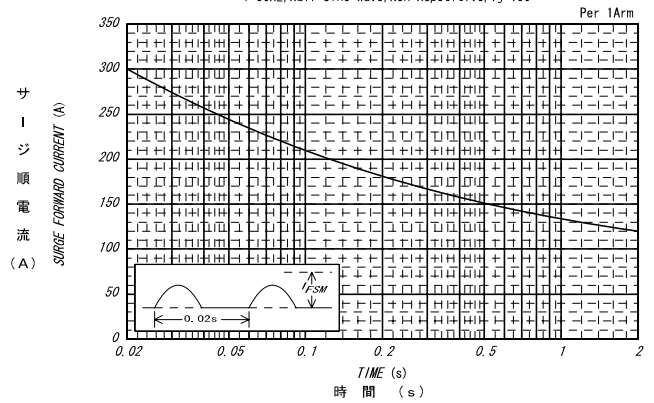


平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION



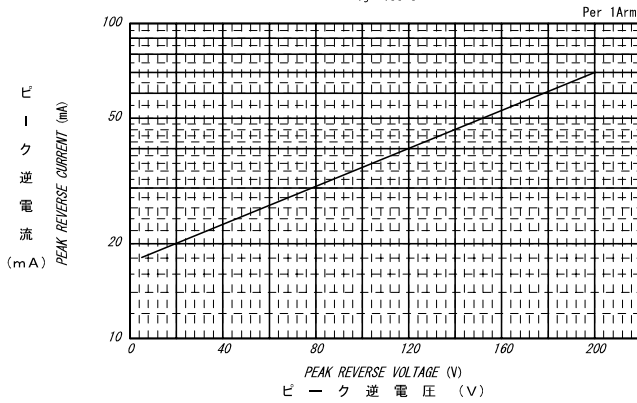
サージ順電流定格  
SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, Tj=150



ピーク逆電流 - ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj = 150 °C



平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

