

SBD MODULE 60A/200V

P2H60QH20

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
		P2H60QH20	-	
Repetitive Peak Reverse Voltage *1	V _{RRM}	200	-	V
Non Repetitive Peak Reverse Voltage *1	V _{RSM}	-	-	

Parameter			Conditions	Max Rated Value	Unit
Average Rectified Output Current *1		I _{O(AV)}	50Hz Half Sine Wave condition T _c =88°C	60	A
Surge Forward Current *1		I _{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive	600	A
Operating JunctionTemperature Range		T _{jw}		-40 to +150	°C
Storage Temperature Range		T _{stg}		-40 to +125	°C
Isoration Voltage		Viso	Base Plate to Terminals, AC1min	2500	V
Mounting torque	Terminals	F _{tor}	M4Screw	1.5(1.4)	N•m
	Case mounting		M4Screw with Thermal Compound	1.5(1.4)	

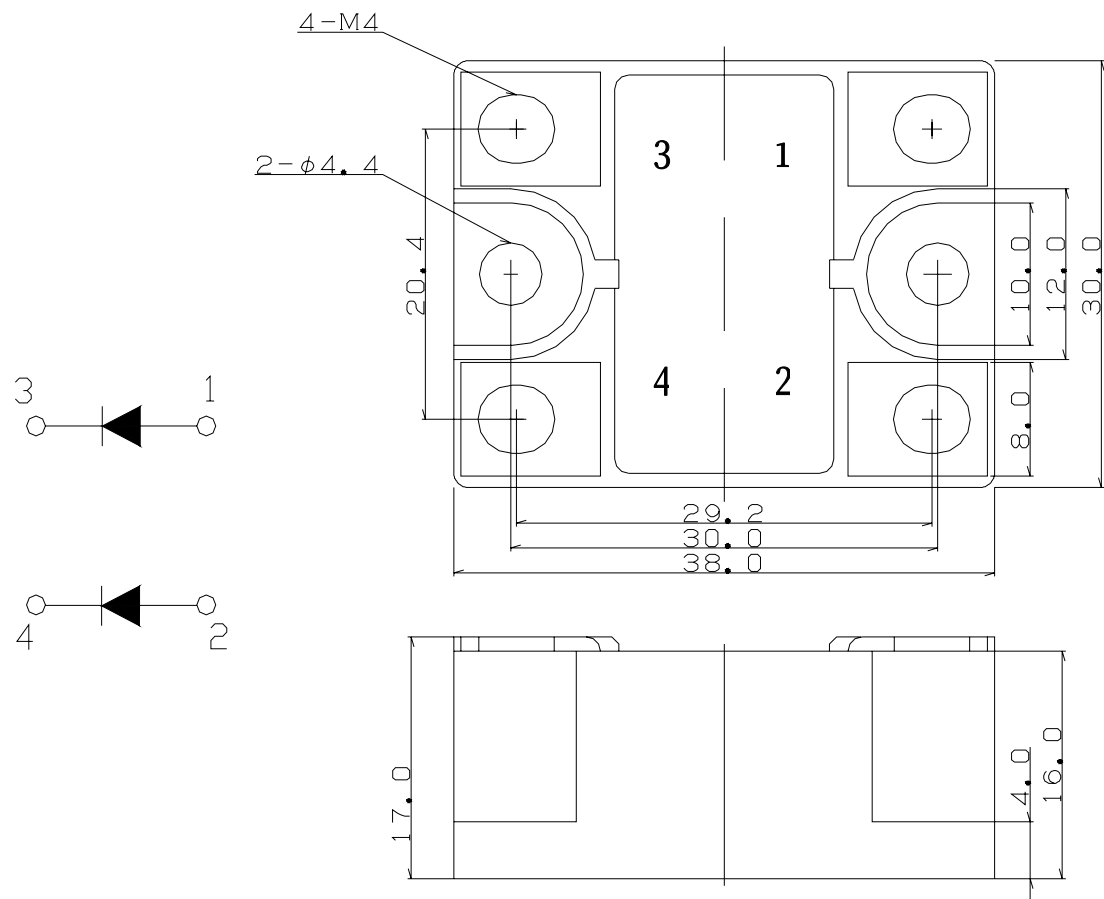
Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I _{RM}	V _{RM} = V _{RRM} , T _j = 25°C	40	μA
Peak Forward Voltage *1	V _{FM}	I _{FM} = 60A, T _j =25°C	1.09	V
Thermal Resistance *1	R _{th(j-c)}	Junction to Case	0.72	°C/W
	R _{th(c-f)}	Base Plate to Heat Sink with Thermal Compound	0.3	

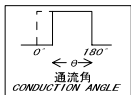
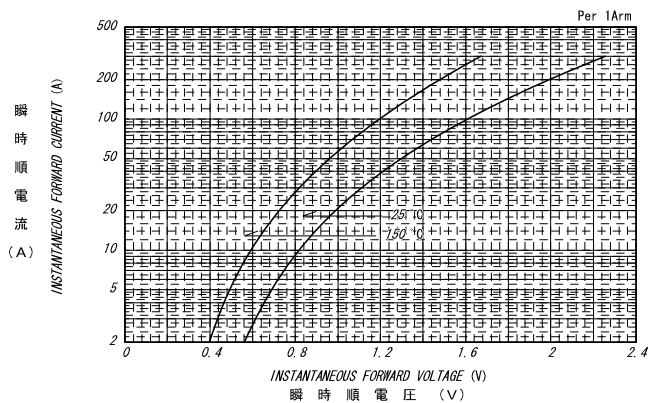
*1: Value Per 1Arm

P2H60QH20

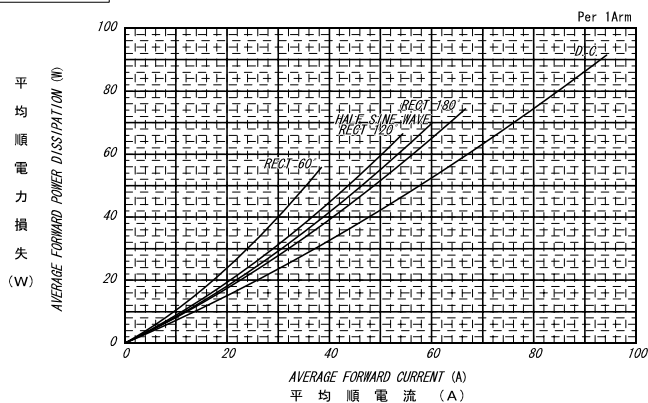
OUTLINE DRAWING (Dimensions in mm)



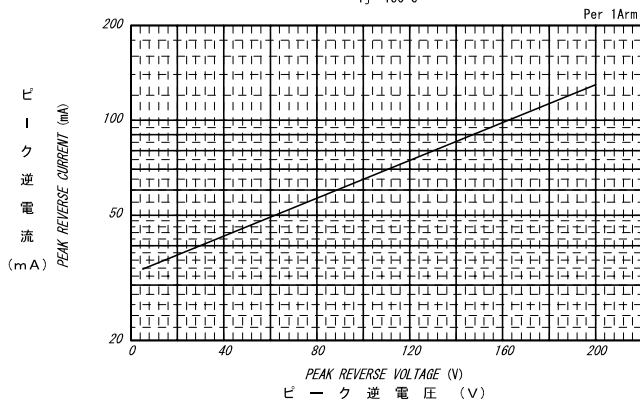
順電圧特性
FORWARD CURRENT VS. VOLTAGE



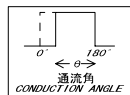
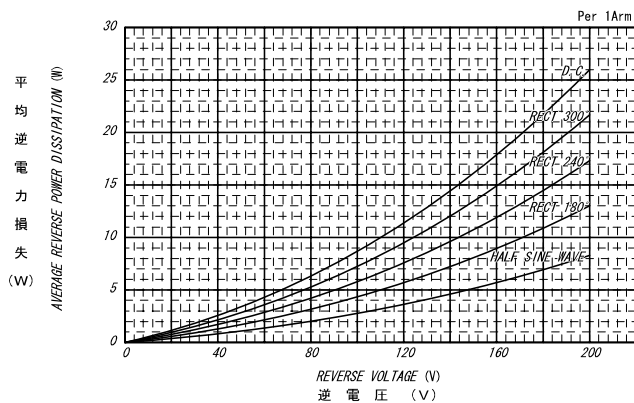
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



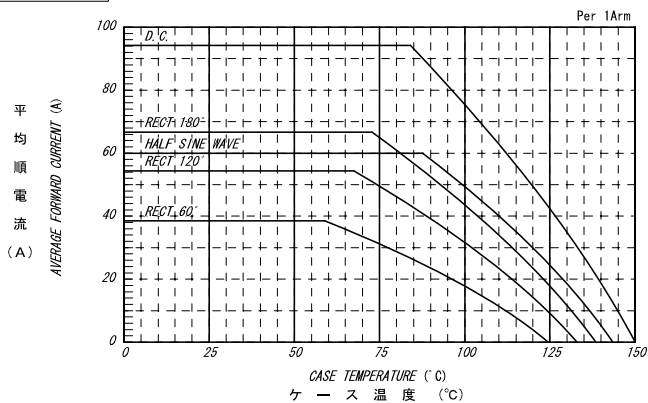
ピーク逆電流 - ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE
Tj = 150°C



平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION



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



サージ順電流定格
SURGE CURRENT RATINGS

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

