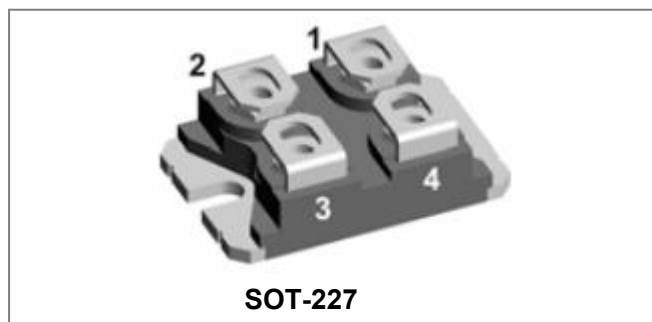


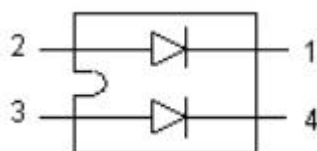
## SK2S200-150 Power Schottky Rectifier



### Features

- International standard package SOT-227
- Epoxy meets UL 94V-0
- Extremely low switching losses
- Low  $I_{RM}$  -values
- Copper internally DBC isolated
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

### Circuit Diagram



### Applications

- Rectifiers in switch mode power Supplies(SMPS)
- Free wheeling diode in low voltage Converters

### Advantages

- High reliability circuit operation
- Low voltage peaks for reduced Protection circuits
- Low noise switching
- Low losses

### Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	-	150	V
Average Rectified Forward Current	$I_{F(AV)}$	50% duty cycle @ $T_C = 110^\circ\text{C}$ , rectangular wave form	100(Per Leg) 200(Per Device)	A
Peak One Cycle Non-Repetitive Surge Current (Per Leg)	$I_{FSM}$	8.3 ms, half Sine pulse	1400	A

**Electrical Characteristics:**

Characteristics	Symbol	Condition	Typ.	Max.	Units
Forward Voltage Drop(Per Leg)*	V <sub>F1</sub>	@ 100A, Pulse, T <sub>J</sub> = 25 °C @ 200A, Pulse, T <sub>J</sub> = 25 °C	-	0.91 1.09	V
	V <sub>F2</sub>	@ 100A, Pulse, T <sub>J</sub> = 125 °C @ 200A, Pulse, T <sub>J</sub> = 125 °C	-	0.77 0.99	V
Reverse Current(Per Leg)*	I <sub>R1</sub>	@V <sub>R</sub> = rated V <sub>R</sub> , T <sub>J</sub> = 25 °C	-	4	mA
	I <sub>R2</sub>	@V <sub>R</sub> = rated V <sub>R</sub> , T <sub>J</sub> = 125 °C	-	10	mA

\* Pulse width < 300 μs, duty cycle < 2%

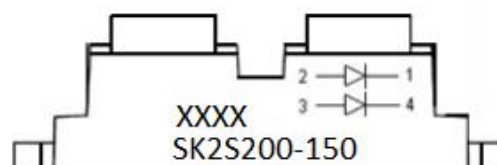
**Thermal-Mechanical Specifications:**

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T <sub>J</sub>	-	-55 to +150	°C
Storage Temperature	T <sub>stg</sub>	-	-55 to +150	°C
Thermal Resistance Junction to Case(Peg Device)	R <sub>θJC</sub>	DC operation	0.4	°C/W
Mounting torque(M4)	M <sub>D</sub>	-	1.1-1.5/9-13	Nm/
Terminal connection torque(M4)			1.1-1.5/9-13	lb.in.
Typical Approximate Weight	wt	-	30	g

**Ordering Information**

Device	Package	Shipping
SK2S200-150	SOT-227 (Pb-Free)	36pcs /BULK

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

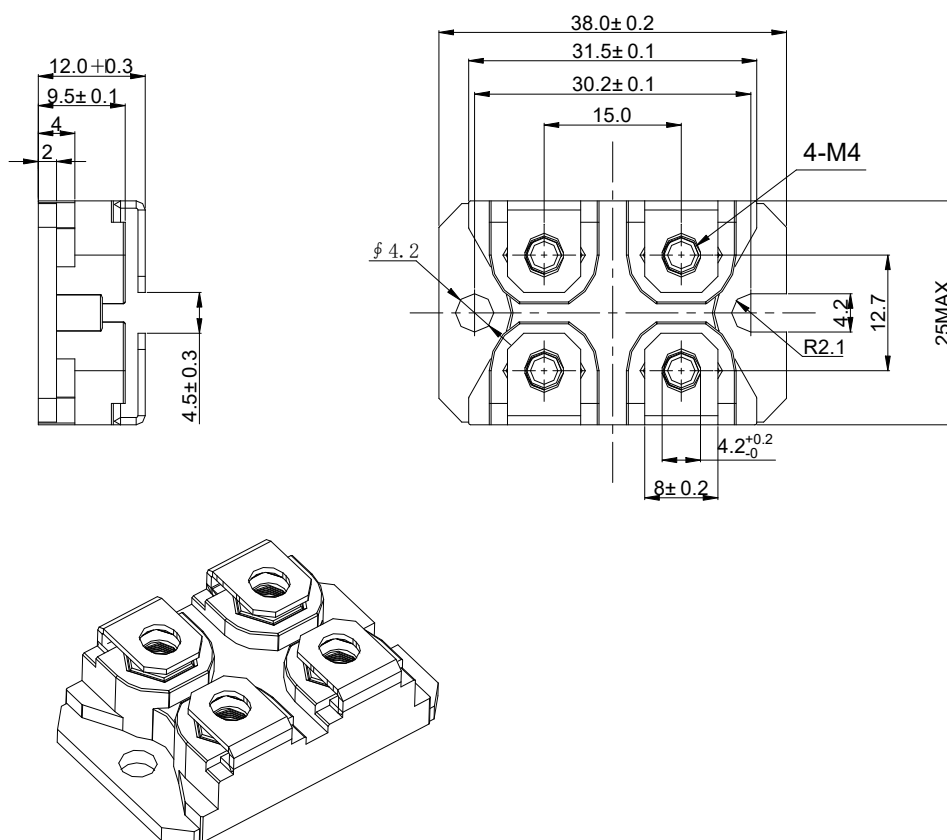
**Marking Diagram**


Where XXXX is YYWW

S = SMC's Power Module  
 K = SOT-227 Package  
 2 = Circuit Configuration  
 S = Schottky Rectifier  
 200 = Forward Current (200A)  
 150 = Reverse Voltage (150V)  
 YY = Year  
 WW = Week

Remark: marking is as above from data code 2036.

**Mechanical Dimensions SOT-227(Millimeters)**



**Technical Data**  
**Data Sheet N1738, Rev. B**



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