

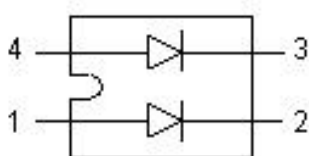
SK2S200-150 Power Schottky Rectifier



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_{F1}	@ 100A, Pulse, $T_J = 25\text{ }^{\circ}\text{C}$ @ 200A, Pulse, $T_J = 25\text{ }^{\circ}\text{C}$	-	0.91 1.09	V
	V_{F2}	@ 100A, Pulse, $T_J = 125\text{ }^{\circ}\text{C}$ @ 200A, Pulse, $T_J = 125\text{ }^{\circ}\text{C}$	-	0.77 0.99	V
Reverse Current(Per Leg)*	I_{R1}	@ $V_R = \text{rated } V_R$, $T_J = 25\text{ }^{\circ}\text{C}$	-	4	mA
	I_{R2}	@ $V_R = \text{rated } V_R$, $T_J = 125\text{ }^{\circ}\text{C}$	-	10	mA

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

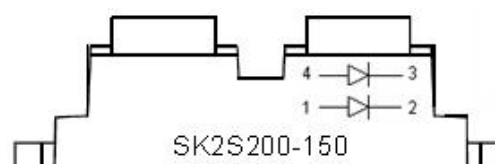
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-	-55 to +150	$^{\circ}\text{C}$
Thermal Resistance Junction to Case(Peg Device)	$R_{\theta\text{JC}}$	DC operation	0.4	$^{\circ}\text{C/W}$
Mounting torque(M4)	M_D	-	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

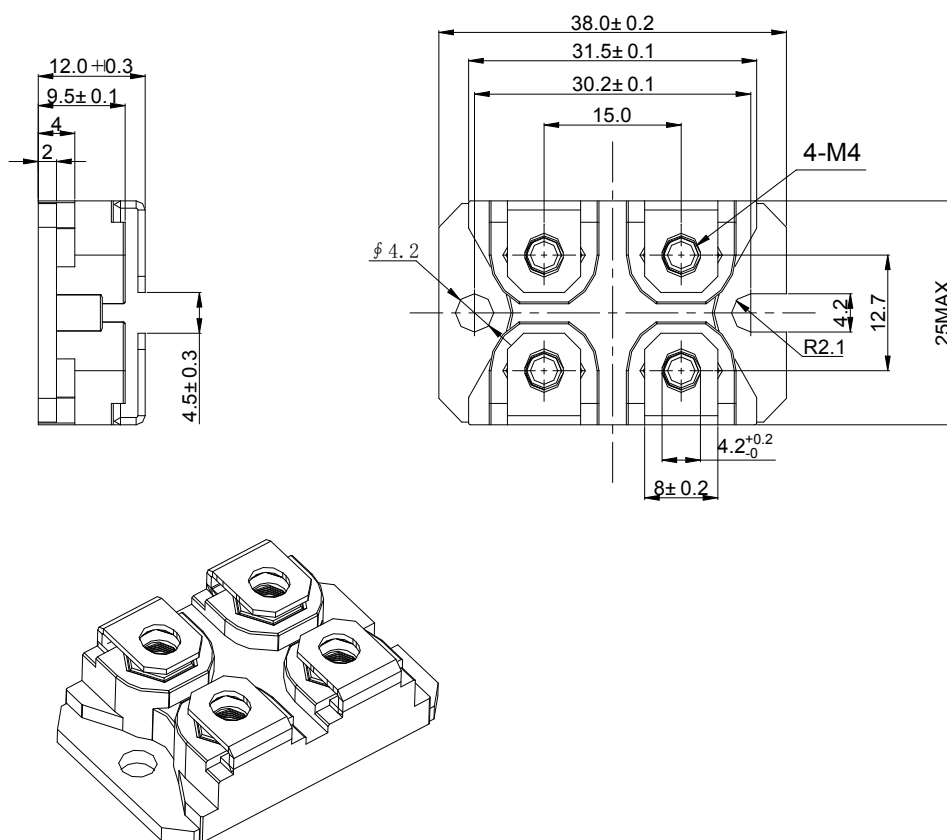
Device	Package	Shipping
SK2S200-150	SOT-227 (Pb-Free)	36pcs /BULK

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

Marking Diagram


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

Mechanical Dimensions SOT-227(Millimeters)



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