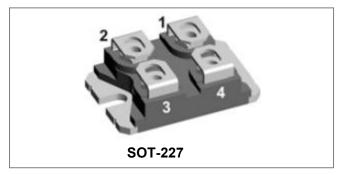


SK2S200-200

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SK2S200-200 Power Schottky Rectifier



Features

- International standard package SOT-227
- Extremely low switching losses
- Low I_{RM} -values
- Copper internally DBC isolated
- Base plate: Nickel plated; Terminals: Nickel plated
- UL approved file E517293
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Applications

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

Advantages

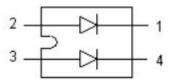
- High reliability circuit operation
- Low voltage peaks for reduced Protection circuits
- Low noise switching
- Low losses

Maximum Ratings(limiting values, T_c =25°C unless otherwise specified) :

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	I _{F(AV)}	50% duty cycle @Tc =105°C, rectangular wave form	100(Per Leg) 200(Per Device)	А
Peak One Cycle Non-Repetitive Surge Current (Per Leg)	I _{FSM}	8.3 ms, half Sine pulse	1400	А

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RoHS 🕞

Electrical Characteristics:

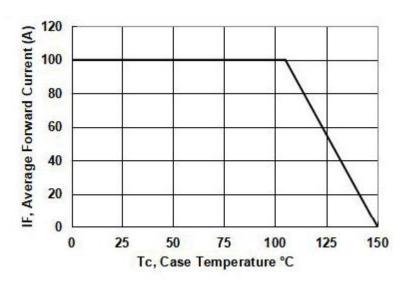
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 100A, Pulse, TJ = 25 °C @ 200A, Pulse, TJ = 25 °C	0.90 1.03	0.95 1.30	V
	V _{F2}	@ 100A, Pulse, TJ = 125 °C @ 200A, Pulse, TJ = 125 °C	0.76 0.91	0.85 1.10	V
Reverse Current(Per Leg)*	I _{R1}	$@V_R = rated V_{R,} T_J = 25 \ ^{\circ}C$	0.0005	0.5	mA
	I _{R2}	$@V_R = rated V_{R_i} T_J = 125 \ ^{\circ}C$	0.4	15	mA
Isolation Breakdown Voltage(R.M.S)	Visol	Ac.50H _Z ; R.M.S;1min, T_J = 25 °C	-	2500	V
	V1501	Ac.50Hz; R.M.S; 1sec, T _J = 25 °C	-	3500	v

* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Thermal Resistance Junction to Case(Peg Device)	R _{θJC}	DC operation	0.4	°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

Ratings and Characteristics Curves



Forward Current VS Case temperature Diode

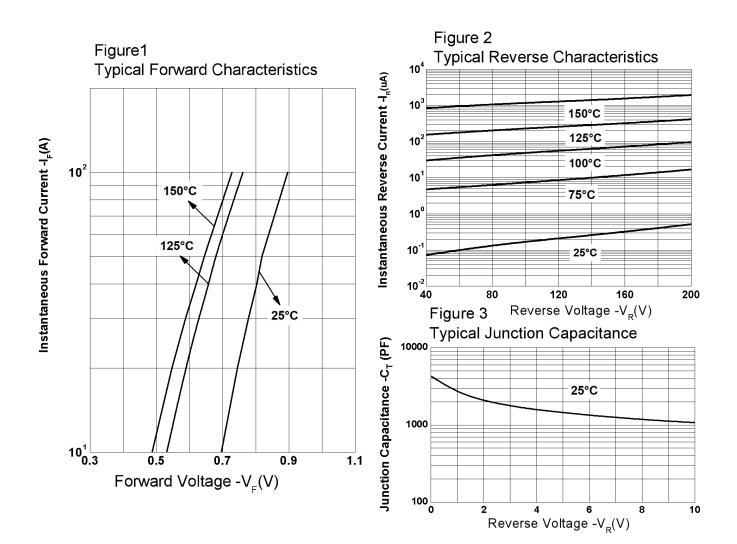
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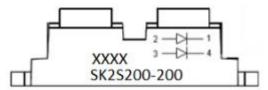
SK2S200-200

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Ordering Information

Device	Package	Shipping
SK2S200-200	SOT-227 (Pb-Free)	36pcs /BULK

Marking Diagram



Where XXXX is YYWW

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

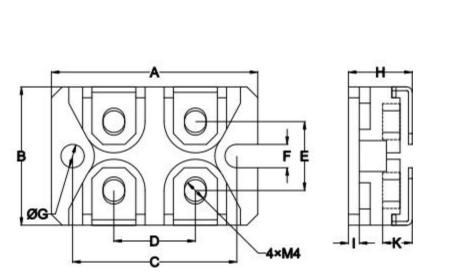
S

K 2 S

200

YΥ

Mechanical Dimensions SOT-227(Millimeters)



SYMBOL	Dimensions in millimeters		
	Min.	Max.	
А	37.8	38.2	
В	24.8	25.21	
С	29.9	30.55	
D	14.5	15.5	
E	12.2	13.45	
F	4.1	4.31	
G	φ4.1	φ4.31	
Н	11	12.5	
I	1.9	2.1	
К	4.3	6.5	



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