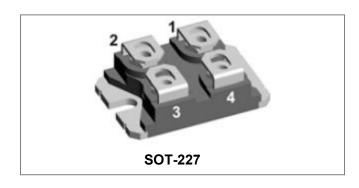






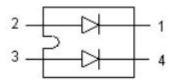
SK2U200-1200 Ultrafast Recovery Modules



Features

- Two fully independent diodes
- Fully insulated package
- Ultrafast, soft reverse recovery, with high operation
- Low forward voltage drop
- Optimized for power conversion: welding and industrial
- SMPS applications
- Easy to use and parallel
- Industry standard outline
- Designed and qualified for industrial level

Circuit Diagram



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	-	1200	V
Average Rectified Forward Current	I _F	T _C = 45°C	100(Per Leg) 200(Per Device)	Α
Peak One Cycle Non-Repetitive Surge Current (Per Leg)	I _{FSM}	10 ms, half Sine pulse	800	Α







Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 100A, Pulse, T _J = 25 °C	1.57	1.87	V
	V_{F2}	@ 100A, Pulse, T _J = 125 °C	1.47	1.75	V
Reverse Current(Per Leg)*	I _{R1}	$@V_R = \text{rated } V_R$, $T_J = 25 ^{\circ}\text{C}$	0.07	100	uA
	I _{R2}	@V _R = rated V _R ,T _J = 125 °C	0.03	5	mA
Reverse recovery time(Per Leg)	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA, T_J = 25 °C	119	125	ns
		Ac.50H _Z ; R.M.S;1min, T _J = 25 °C	-	2500	V
Isolation Breakdown Voltage(R.M.S)	Visol	Ac.50Hz; R.M.S; 1sec, T _J = 25 °C	-	3500	V

^{*} Pulse width < 300 µs, duty cycle < 2%

Thermal-Mechanical Specifications:

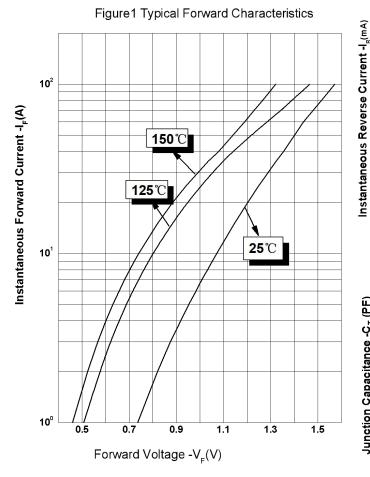
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case(per leg)	R _θ JC	DC operation	0.74	°C/W
Maximum Thermal Resistance Junction to Case(per package)	Rejc	DC operation	0.42	°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
Case Style	SOT-227			

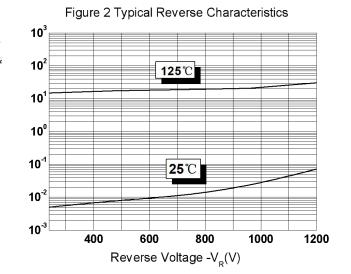


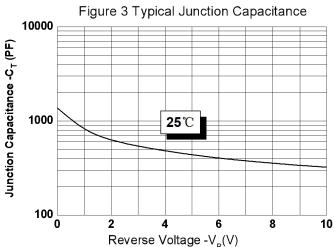




Ratings and Characteristics Curves







[•] China - Germany - Korea - Singapore - United States •

[•] http://www.smc-diodes.com - sales@ smc-diodes.com •



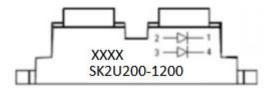




Ordering Information

Device	Package	Shipping
SK2U200-1200	SOT-227	26noo /DLILI/
	(Pb-Free)	36pcs /BULK

Marking Diagram

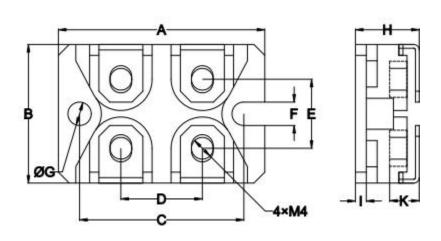


Where XXXX is YYWW

S = SMC's Power Module
K = SOT-227 Package
2 = Circuit Configuration
U = Ultrafast Rectifier
200 = Forward Current (200A)
1200 = Reverse Voltage (1200V)

YY = Year WW = Week

Mechanical Dimensions SOT-227(Millimeters)



SYMBOL	Dimensions in millimeters		
	Min.	Max.	
Α	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	

- China Germany Korea Singapore United States
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