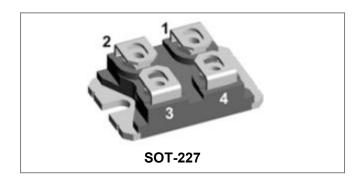


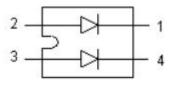




SK2U150-400 Ultrafast Recovery Modules



Circuit Diagram



Features

- Two fully independent diodes
- Fully insulated package
- Ultrafast, soft reverse recovery, with high operation junction temperature (150°C Tj)
- 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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Cathode to anode voltage	V_R	-	400	V
Continuous forward current	I _F	50% duty cycle @T _C =70°C, rectangular wave form	75(Per Leg) 150(Per Device)	Α
Single pulse forward current (Per Leg)	I _{FSM}	8.3 ms, half Sine pulse, Tc=25℃	950	Α







Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop	V _{F1}	@ 75A, Pulse, T _J = 25 °C	1.00	1.1	V
(Per Leg) *	V_{F2}	@ 75A, Pulse, T _J = 125 °C	0.80	0.9	V
Reverse Current (Per Leg) *	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}\text{C}$	0.01	50	μА
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	1.02	5	mA
Reverse recovery time(Per Leg)	Trr	IF=500mA, IR=1A, Irm=250mA, TJ = 25 °C	73	150	nS

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

Thermal-Mechanical Specifications:

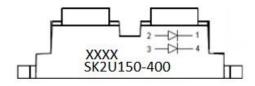
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case(Per Leg)	R _θ JC	DC operation	0.70	K/W
Mounting torque(M4)	M _D	-	1.1-1.5/9-13	Nm/
Terminal connection torque(M4)	IVID		1.1-1.5/9-13	lb.in.
Typical Approximate Weight	wt	-	30	g

Ordering Information

Device	Package	Shipping
SK2U150-400	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
U = Ultrafast Rectifier
150 = Forward Current (150A)
400 = Reverse Voltage (400V)
YY = Year

YY = Year WW = Week

Remark: marking is as above from data code 2036.

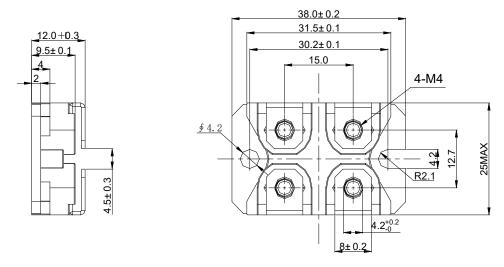
- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •

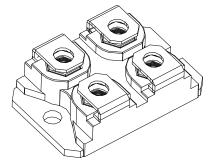






Mechanical Dimensions SOT-227(Millimeters)













DISCLAIMER:

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