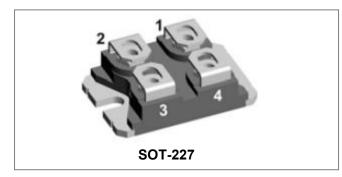


SK2U240-200

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SK2U240-200 Ultrafast Recovery Modules

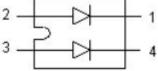


Features

- International standard package miniBLOC (ISOTOP compatible)
- Isolation voltage 2500 V~
- 2 independent FRED in 1 package
- Planar passivated chips
- Very short recovery time
- Extremely low switching losses
- Low IRM-values
- Soft recovery behaviour
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Circuit Diagram



Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Cathode to anode voltage	V _R	-	200	V
Continuous forward current per diode	I _{F(1)}	50% duty cycle @T _C = 70°C, rectangular wave form	123	А
Single pulse forward current per diode	I _{FSM}	8.3 ms, half Sine pulse, $T_c=25^{\circ}C$	1300	A
RMS isolation voltage	ViSol	50/60 Hz, RMS	2500	V~
		$I_{iSol} \leqslant 1 \text{ mA}$		

Note: (1) IF rating includes reverse blocking losses at TJM, VR = 0.8 VRRM, duty cycle d = 0.5 Data according to IEC 60747

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RoHS P

Electrical Characteristics:

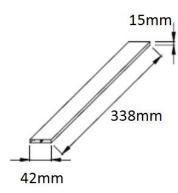
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop (per leg) *	V _{F1}	@ 120A, Pulse, T _J = 25 °C	1.04	1.10	V
	V _{F2}	@ 120A, Pulse, T _J = 150 °C	0.89	0.95	V
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_{R,} T_J = 25 \ ^{\circ}C$	0.06	500	uA
	I _{R2}	@V _R = rated V _R , T _J = 125 °C	-	20	mA
Reverse recovery time	Trr	IF=500mA, IR=1A, Irm=250mA, TJ = 25 °C	70	90	nS
Reverse recovery time	Trr	IF=1.0A, dIF/dt=400A/µS, VR=30V, TJ = 25 °C	35	50	nS
Peak recovery current	I _{RM}	IF=100A, dIF/dt=200A/µS, VR=100V, TJ = 100 °C	12	15	A

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

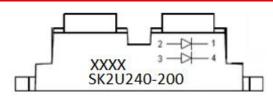
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-40 to +150	°C
Storage Temperature	T _{stg}	-	-40 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	DC operation	0.5	K/W
Mounting torque		-	1.5/13	Nm/
Terminal connection torque(M4)	- M _D		1.5/13	lb.in.
Typical Approximate Weight	wt	-	30	g
Case Style	SOT-227			

Tube Specification



Marking Diagram



Where XXXX is YYWW

S	= SMC's Power Module
K	= SOT-227 Package
2	= Circuit Configuration
U	= Ultrafast Rectifier
240	= Forward Current (240A)
200	= Reverse Voltage (200V)
YY	= Year
WW	= Week

Remark: marking is as above from data code 2036.

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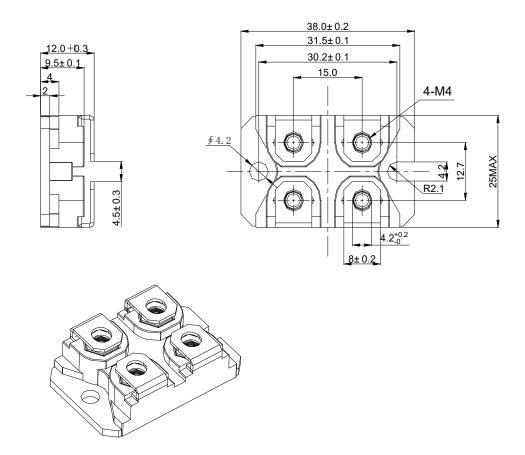
RoHS 🧭

Ordering Information

Device	Package	Shipping
SK2U240-200	SOT-227 (Pb-Free)	36pcs / box

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

Mechanical Dimensions SOT-227(Millimeters)





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SK2U240-200



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