

SK34A

Green products

SK34A SCHOTTKY RECTIFIER

Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- Small foot print, surface mountable
- Very low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Green products in compliance the ROHS directive
- This is a Pb Free device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions (In mm)





Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 (86) 25-87123907 •
FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



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Technical Data Data Sheet N0103, Rev. -

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Marking Diagram:



Where XXXXX is YYWWL

SK	= Device Type
3	= Forward Current (3A)
4	= Reverse Voltage (40V)
А	= Package type
ΥY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SK34A	SMA (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	40	V
Average Forward Current	I _{F(AV)}	50% duty cycle $@T_c = 105^{\circ}C$ rectangular wave form	3.0	А
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	75	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 3A, Pulse, T _J = 25℃	0.63	V
	V _{F1}	@ 3A, Pulse, T _J = 125℃	0.57	V
Reverse Current	I _{R1}	@V _R = rated VR T _J = 25℃	50	uA
	I _{R2}	@V _R = rated VR T _J = 100℃	10	mA
Typical Junction Capacitance	Cj	@V _R = 4.0 V, Tc=25℃ f _{SIG} = 1MHz	60	pF

* Pulse Width < 300µs, 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
Repetitve peek reverse current	I _{RRM}	Tp=2us F=1KHZsquare	1	А
Repetitve peek avalanche power	P _{ARM}	Tp=2us Tj=25℃	1300	W
Approximate Weight	wt	-	0.11	g
Case Style	SMA			



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Typical Forward Characteristics

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