

**Green Products** 

# SL34A SCHOTTKY RECTIFIER

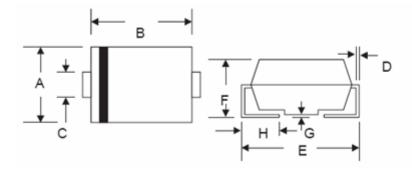
### **Applications:**

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

#### Features:

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- 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 / Inches)**



SMA/DO-214AC				
Dim	Min	Max	Min	Max
Α	2.50	2.90	0.098	0.114
В	4.00	4.60	0.157	0.181
С	1.40	1.60	0.055	0.063
D	0.152	0.305	0.006	0.012
E	4.80	5.28	0.189	0.208
F	2.00	2.44	0.079	0.096
G	0.051	0.203	0.002	0.008
Н	0.76	1.52	0.030	0.060
	In mm		In inch	

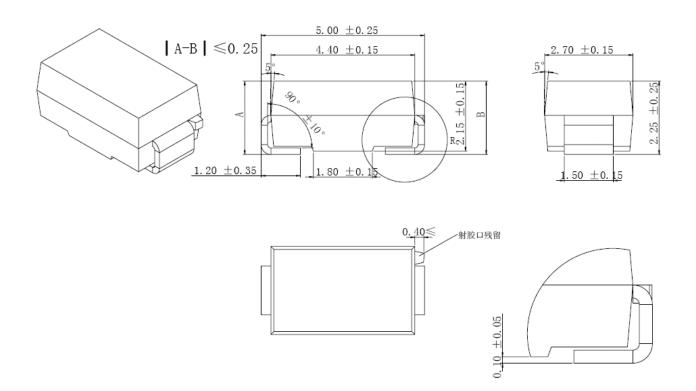
#### **OPTION 1**

<sup>•</sup> Weigi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 📱 (86) 25-87123907 •

<sup>•</sup> FAX (86) 25-87123900 • World Wide Web Site - http://www.smc-diodes.com • E-Mail Address - sales@ sangdest.com.cn •



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OPTION 2(JK)
SMA

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## **Marking Diagram:**



Where XXXXX is YYWWL

SL = Device Type

3 = Forward Current (3A) 4 = Reverse Voltage (40V)

A = Package type

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

# **Ordering Information:**

Device	Package	Shipping
SL34A	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 <sub>F(AV)</sub>	50% duty cycle ,rectangular wave form	3.0	Α
Peak One Cycle Non-Repetitive Surge Current	I <sub>FSM</sub>	8.3 ms, half Sine pulse	70	A

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#### **Electrical Characteristics:**

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	$V_{F1}$	@ 3A, Pulse, T <sub>J</sub> = 25°C	0.50	V
	$V_{F2}$	@ 3A, Pulse, T <sub>J</sub> = 125°C	0.45	V
Reverse Current	I <sub>R1</sub>	$@V_R = \text{rated VR}$ $T_J = 25^{\circ}C$	1.0	mA
	I <sub>R2</sub>	$@V_R = \text{rated VR}$ $T_J = 125^{\circ}C$	55	mA
Junction Capacitance	Cj	$@V_R = 5.0 \text{ V, Tc=}25^{\circ}\text{C}$ $f_{SIG} = 1\text{MHz}$	250	pF

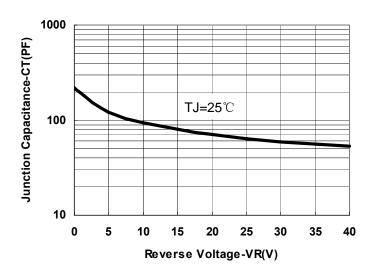
<sup>\*</sup> Pulse Width < 300µs, Duty Cycle <2%

# **Thermal-Mechanical Specifications:**

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	$T_J$	-	-55 to +125	$^{\circ}$
Storage Temperature	T <sub>stg</sub>	-	-55 to +125	$^{\circ}\mathbb{C}$
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	8	°C/W
Approximate Weight	wt	-	0.68	g
Case Style		SMB		

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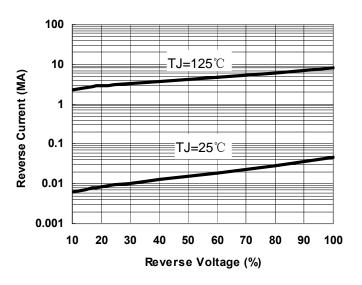


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

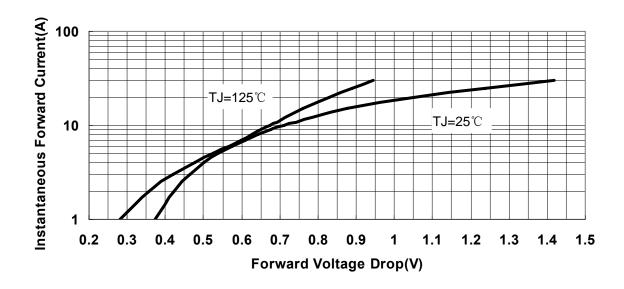


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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SL34A

Technical Data
Data Sheet N1345 Rev. -

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