



SK34A SCHOTTKY RECTIFIER

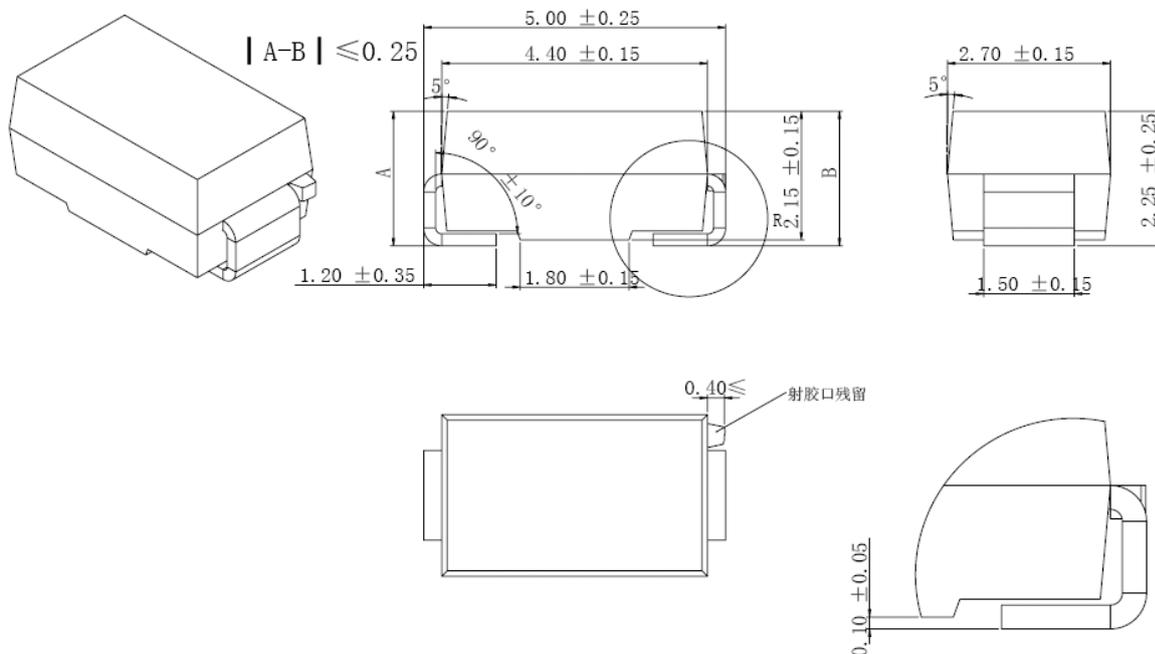
Applications:

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

Features:

- 150°C T_J operation Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- 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)



SMA



Marking Diagram:



Where XXXXX is YYWWL

- SK = 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
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
Max. Average Forward	$I_{F(AV)}$	50% duty cycle @TC =105°C rectangular wave form(L=0.375")	3.0	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	75	A



Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3A, Pulse, $T_J = 25^\circ\text{C}$	0.63	V
	V_{F1}	@ 3A, Pulse, $T_J = 125^\circ\text{C}$	0.57	V
Max. Reverse Current	I_{R1}	@ $V_R = \text{rated VR}$ $T_J = 25^\circ\text{C}$	50	μA
	I_{R2}	@ $V_R = \text{rated VR}$ $T_J = 100^\circ\text{C}$	10	mA
Typical Junction Capacitance	C_j	@ $V_R = 4.0\text{ V}$, $T_c = 25^\circ\text{C}$ $f_{\text{SIG}} = 1\text{MHz}$	60	pF

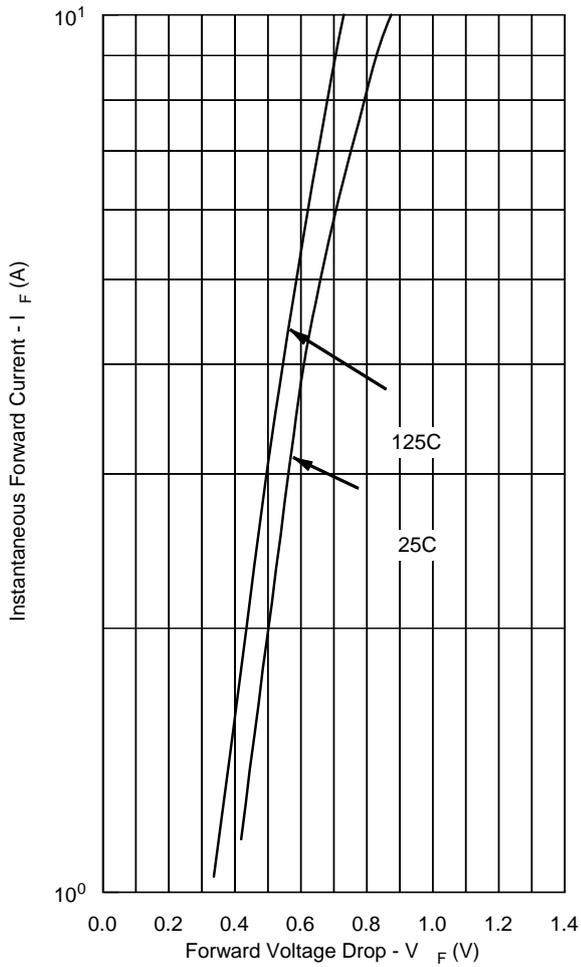
* Pulse Width < 300 μs , Duty Cycle < 2%

Thermal-Mechanical Specifications:

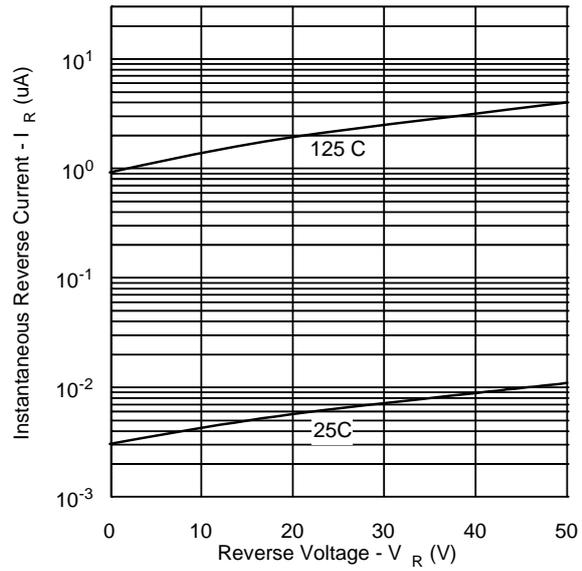
Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	$^\circ\text{C}$
Max. Storage Temperature	T_{stg}	-	-55 to +150	$^\circ\text{C}$
Repetitive peak reverse current	I_{RRM}	$T_p = 2\mu\text{s}$ $F = 1\text{KHz}$ square	1	A
Repetitive peak avalanche power	P_{ARM}	$T_p = 2\mu\text{s}$ $T_j = 25^\circ\text{C}$	1300	W
Approximate Weight	wt	-	0.11	g
Case Style	SMA			



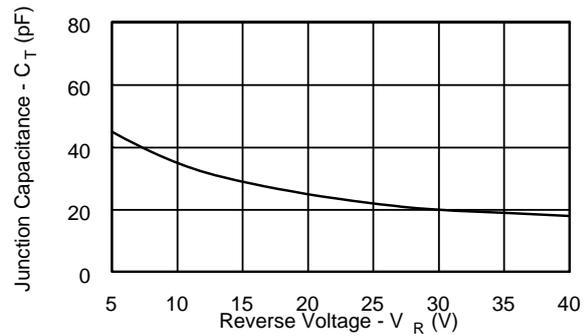
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance





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