



# SX34L

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

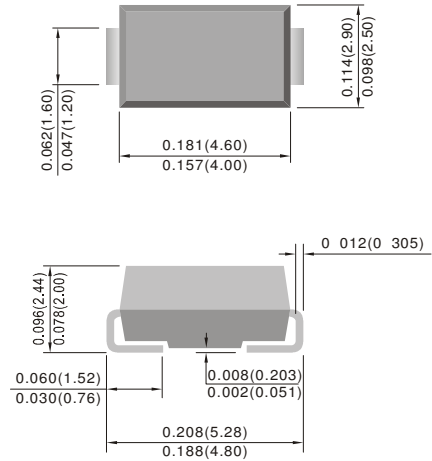
**VOLTAGE** 40 Volts    **CURRENT** 3.0 Amperes    **SMA / DO-214AC**    Unit : inch(mm)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2002/95/EC directives.

### MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0023 ounce, 0.0679 gram



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.  
Resistive or inductive load.

PARAMETER	SYMBOL	SX34L	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS Voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Current Derate at $T_L=75^{\circ}C$	$I_{F(AV)}$	3.0	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50	A
Maximum Forward Voltage @1.0A ( Note 1) @3.0A	$V_F$	0.35 0.45	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $V_R1=15V$ @ $V_R2=20V$ @ $V_R3=40V$	$I_R$	0.15 1.0 2.0	mA
Maximum Thermal Resistance ( Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	20 75	$^{\circ}C / W$
Operating Junction Temperature Range	$T_J$	-55 to +125	$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^{\circ}C$

**NOTES:**

1. Pulse Test with PW =300μsec, 1% Duty Cycle.
2. Mounted on P.C. Board with 8.0mm<sup>2</sup> (.013mm thick) copper pad areas.