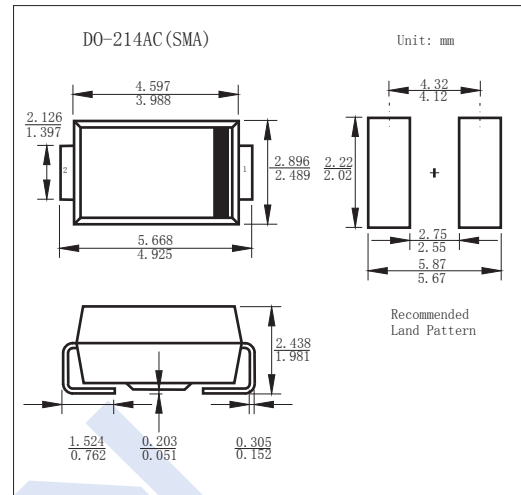


## Rectifier Diodes

## SM520

## ■ Features

- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	2000	V
RMS Voltage	$V_{RMS}$	1400	
DC Blocking Voltage	$V_R$	2000	
Forward Voltage @ $I_R=1\text{A}$	$V_F$	1.1	A
Average Forward Rectified Current @ $T_L = 110^\circ\text{C}$	$I_{AV}$	1	
Peak Forward Surge Current @ 8.3ms	$I_{FSM}$	30	uA
Reverse Voltage Leakage Current $T_a = 25^\circ\text{C}$	$I_R$	5	
$T_a = 100^\circ\text{C}$		50	
Typical Junction Capacitance (Note.1)	$C_J$	15	pF
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	75	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 to 150	

Note.1: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

# Rectifier Diodes

## SM520

### ■ Typical Characteristics

