



# 45V 20A Schottky Diode - SiS170H045S

Silicon Schottky Rectifier in bare die form

Version 1.0  
06/04/18

## Applications

- Switching Power Supply
- Converters
- Free Wheeling Diodes

## Features

- Ultra Low Reverse Current
- Soft recovery low & high temperature
- Low forward Voltage drop

## Electrical Characteristics

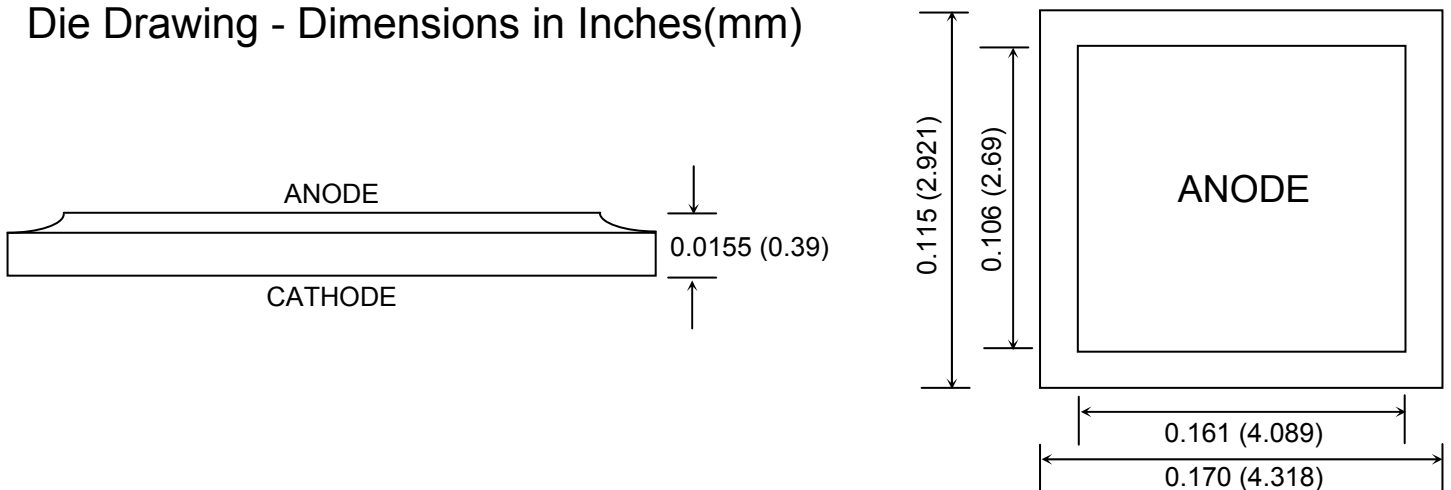
Symbol	Parameter	Conditions	Typ	Max	Unit
$V_R$	Reverse Voltage	-	-	<b>45</b>	V
$I_R$	Reverse Current	$V_R = 45V, T_J = 25^\circ C$	-	<b>0.60</b>	mA
		$^1V_R = 45V, T_J = 125^\circ C$	-	<b>21.0</b>	mA
$V_F$	Forward Voltage	$I_F = 20A @ 25^\circ C$	-	<b>0.64</b>	V
$T_J$	Junction Temperature	-	-	<b>175</b>	$^\circ C$

Note 1: Not production tested at wafer level, tested in package

## Mechanical Data

Die Attach Method	Front Metal Composition			Back Metal Composition		
Solderable Top Solderable Back	-	TiNiAg 30kÅ	-	Ti	Ni	Ag 30kÅ

## Die Drawing - Dimensions in Inches(mm)



**DISCLAIMER:** The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Silicon Supplies Ltd hereby disclaims any and all warranties and liabilities of any kind.

**LIFE SUPPORT POLICY:** Silicon Supplies Ltd components may be used in life support devices or systems only with the express written approval of Silicon Supplies Ltd, if a failure of such components can reasonably be expected to cause the failure of that life support device or system or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.

