



# 45V 30A Schottky Diode - SiS175H045S

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

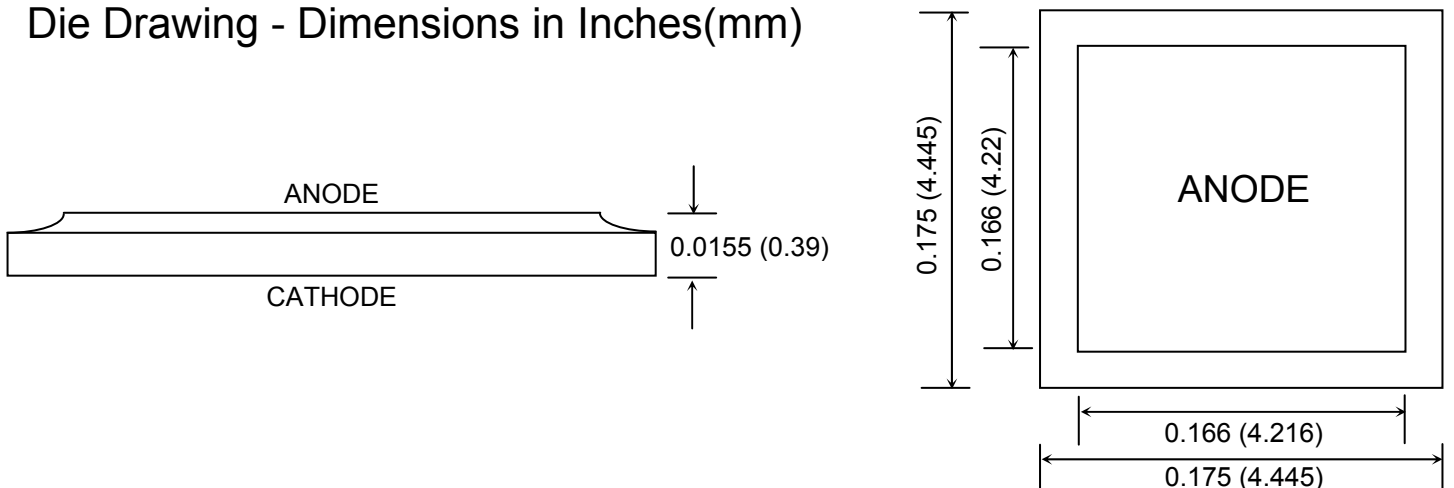
| Symbol | Parameter            | Conditions                         | Typ | Max         | Unit       |
|--------|----------------------|------------------------------------|-----|-------------|------------|
| $V_R$  | Reverse Voltage      | -                                  | -   | <b>45</b>   | V          |
| $I_R$  | Reverse Current      | $V_R = 45V, T_J = 25^\circ C$      | -   | <b>0.80</b> | mA         |
|        |                      | ${}^1V_R = 45V, T_J = 125^\circ C$ | -   | <b>30.0</b> | mA         |
| $V_F$  | Forward Voltage      | $I_F = 30A @ 25^\circ C$           | -   | <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<br>Solderable Back | -                       | TiNiAg 30kÅ | - | Ti                     | Ni | Ag 30kÅ |

## Die Drawing - Dimensions in Inches(mm)



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