

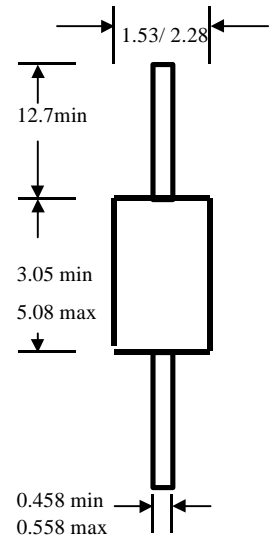
**Switching Diode**

**FEATURES**

- Qualified to ESA/SCC 5101/025
- Metallurgical Bond
- DO-35 Package
- Hermetically Sealed Glass Package

**MAXIMUM RATINGS**

Operating Temperature: -55°C to +200°C  
 Storage Temperature: -65°C to +200°C  
 Thermal Impedance: 25°C/W max. (See Note 3)  
 Thermal Resistance: 250°C/W max.  
 Total Power Dissipation: 500mW  
 DC Reverse Voltage: 50V  
 Breakdown Voltage: 75V nom.



*Dimensions in Millimetres*

**ELECTRICAL CHARACTERISTICS** at 25°C unless otherwise specified.

<b>I<sub>R</sub></b> @ 50V dc		<b>V<sub>BR</sub></b> @ 5uA		<b>V<sub>F</sub></b> @ 50mA		<b>I<sub>R</sub></b> @ 50V dc, T <sub>A</sub> = 150°C	
nA		V		V		uA	
min	max	min	max	min	max	min	max
	50	75			1.0		50

<b>Capacitance</b> (Note 2)		<b>t<sub>RR</sub></b> (Note 1)	
pF		nsec	
min	max	min	max
	2.0		4

- NOTE 1: I<sub>F</sub> = - I<sub>RM</sub> = 10 - 200mA, i<sub>RR</sub> = 1/10 I<sub>F</sub>, R<sub>L</sub> = 100Ω  
 NOTE 2: V<sub>R</sub> = 0V, f = 1MHz.  
 NOTE 3: Thermal Impedance Conditions as follows:  
 I<sub>H</sub> = 300mA, I<sub>M</sub> = 1mA, t<sub>H</sub> = 10mS, t<sub>MD</sub> = 70uS

**MECHANICAL CHARACTERISTICS**

CASE: Hermetically Sealed  
 Glass Package.  
 LEAD MATERIAL: Cu clad steel  
 LEAD FINISH: L4 (solder dipped)  
 MARKING: Alpha numeric.  
 POLARITY: Cathode Band.

Datasheet: MSC0314A

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