

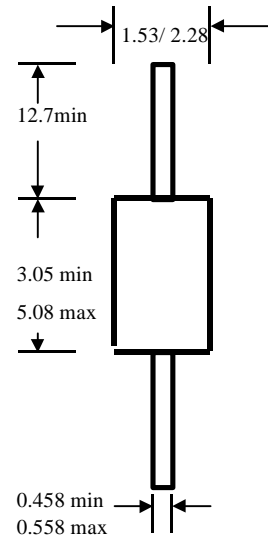
## Switching Diode

### 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.

$I_R$ @ 50V dc		$V_{BR}$ @ 5uA		$V_F$ @ 50mA		$I_R$ @ 50V dc, $T_A = 150^\circ\text{C}$	
nA		V		V		uA	
min	max	min	max	min	max	min	max
	50	75			1.0		50

Capacitance (Note 2)		$t_{RR}$ (Note 1)	
pF		nsec	
min	max	min	max
	2.0		4

- NOTE 1:  $I_F = -I_{RM} = 10 - 200\text{mA}$ ,  $i_{RR} = 1/10 I_F$ ,  $R_L = 100\Omega$   
 NOTE 2:  $V_R = 0\text{V}$ ,  $f = 1\text{MHz}$ .  
 NOTE 3: Thermal Impedance Conditions as follows:  
 $I_H = 300\text{mA}$ ,  $I_M = 1\text{mA}$ ,  $t_H = 10\text{mS}$ ,  $t_{MD} = 70\mu\text{S}$

### 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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