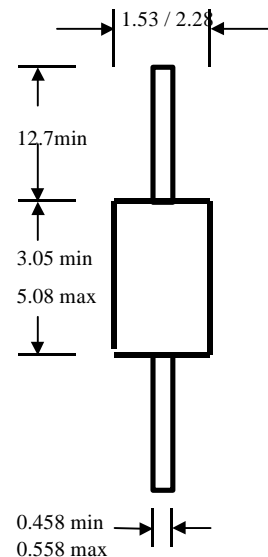


## FEATURES

- Qualified to ESA/SCC 5101/023
- Metallurgical Bond
- DO-35 Package
- Hermetically Sealed Glass Package

## MAXIMUM RATINGS

Operating Temperature:	-65°C to +175°C
Storage Temperature:	-65°C to +175°C
Surge Current, 1.0us:	2.0A
Thermal Impedance:	25°C/W max. (See Note 4)
Thermal Resistance:	250°C/W max.
Total Power Dissipation:	500mW
Continuous D.C. Forward Current:	200mA



## Dimensions In Millimetres

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

$I_R$ @ 20V dc		$I_R$ @ 75V dc		$V_{BR}$ @ 100uA		$V_F$ @ $I_F = 10mA$		$I_R$ @ 75V dc, $T_A = 150^\circ C$	
nA		uA		V		V dc		uA	
min	max	min	max	min	max	min	max	min	max
	25		0.5	100			1.0		100

Capacitance (Note 3)		$t_{RR}$ (Note 1)		$t_{FR}$ (Note 2)	
pF		nsec		nsec	
min	max	min	max	min	max
	4.0		5		20

- NOTE 1:  $I_F = 10mA$ ,  $V_R = 6V$ ,  $i_{RR} = 1mA$ ,  $R_L = 100\Omega$   
 NOTE 2:  $I_F = 50mA$  dc  
 NOTE 3:  $V_R = 0V$ ,  $f = 1MHz$ ,  $V_{sig} = 50mV$  (pk to pk).  
 NOTE 4: Thermal Impedance conditions as follows:  
 $I_H = 300mA$ ,  $I_M = 1mA$ ,  $t_H = 10mS$ ,  $t_{MD} = 70uS$ .

## MECHANICAL CHARACTERISTICS

CASE: Hermetically Sealed  
Glass Package.

LEAD MATERIAL: Cu clad steel  
 LEAD FINISH: L4 (solder dipped)  
 MARKING: Alpha numeric.  
 POLARITY: Cathode Band.

Industrial Estate, Gort Road, Ennis, Co. Clare, Ireland.

Datasheet: MSC0312A.PDF

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