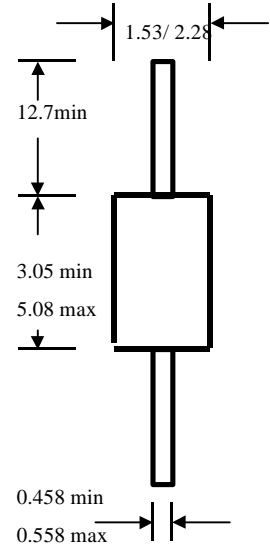


## FEATURES

- Qualified to ESA/SCC 5101/024
- 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:	4.0A
1.0S :	0.5A
Thermal Impedance:	25°C/W max. (See Note 4 )
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		$V_F$ @ 1mA		$V_F$ @ 10mA		$V_F$ @ $I_F = 200mA$		$I_R$ @ 50V dc, $T_A = 150^\circ C$	
nA		V		V		V		V		uA	
min	max	min	max	min	max	min	max	min	max	min	max
	100	75		0.54	0.62	0.66	0.74	0.87	1.0		100

Capacitance (Note 3)		$t_{RR}$ (Note 1)		$t_{RR}$ (Note 2)	
pF		nsec		nsec	
min	max	min	max	min	max
	4.0		4		6

- NOTE 1:  $I_F = -I_{RM} = 10 - 200mA$ ,  $i_{RR} = 1/10 I_F$ ,  $R_L = 100\Omega$   
 NOTE 2:  $I_F = -I_{RM} = 200 - 400mA$ ,  $i_{RR} = 1/10 I_F$ ,  $R_L = 100\Omega$   
 NOTE 3:  $V_R = 0V$ ,  $f = 1mhz$ .  
 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: MSC0313A.PDF

- Tel : 353 - 65 - 40044
- Fax : 353 - 65 - 22298
- Email sales@msc-ireland.ie