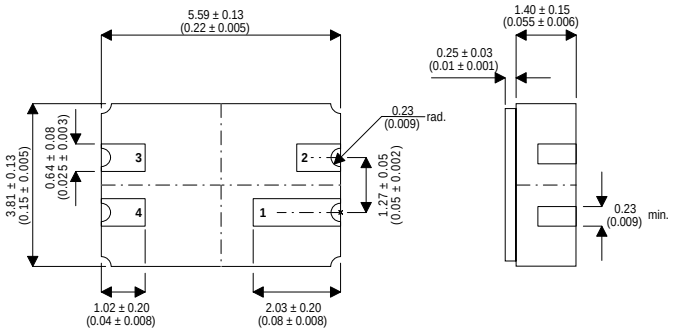
1N4001CSM4

MECHANICAL DATA
Dimensions in mm (inches)



LCC3 PACKAGE
Underside View

PAD 1= Cathode
PAD 2 = No Connection
PAD 3 = No Connection
PAD 4 = Anode

GENERAL PURPOSE SILICON RECTIFIER DIODE

General Purpose Rectifier Diode In A Hermetic Ceramic Surface Mount Package for High Reliability Applications

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_R	Reverse Voltage				50	V
V_{RRM}	Peak Reverse Voltage				50	V
$I_{F(AV)}$	Average Half Wave Rectified Forward Current	$T_{amb} \leq 25$ °C			1.0	A
		T_{amb} = 100 °C			0.75	
I_F	D.C Forward Current				1	A
I_{FRM}	Repetitive Peak Forward Current				10	A
I_{FSM}	Non-Repetitive Peak Forward Current	(half cycle surge , 60 c.p.s)			30	A

CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_F	Forward Voltage Drop	I_F = 1A			1.1	V
$V_{F(AV)}$	Full-Cycle average forward voltage drop	$I_{F(AV)}$ = 1A			0.8	V
I_R	Reverse Current	V_R = 50 V , T_{amb} = 25 °C			10	µA
		V_R = 50 V , T_{amb} = 100 °C			50	
$I_{R(AV)}$	Full cycle average reverse current	V_{RRM} = 50 V , T_{amb} = 75 °C			30	µA

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