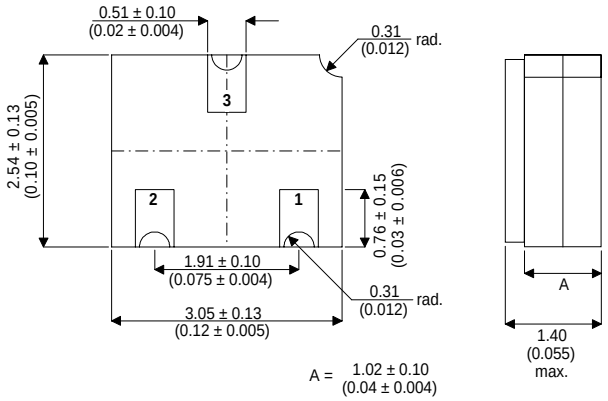
1N6638CSM

MECHANICAL DATA
Dimensions in mm(inches)



LCC1 PACKAGE
(SOT23 Compatible)

SWITCHING DIODE IN A CERAMIC SURFACE MOUNT PACKAGE FOR HI–REL APPLICATIONS

FEATURES

- **HERMETIC CERAMIC SURFACE MOUNT PACKAGE**
- **SCREENING OPTIONS AVAILABLE**

Pad 1 – Anode Pad 2 – N/C Pad 3 – Cathode

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

V_{BR}	Breakdown Voltage	150V
V_{RWM}	Working Peak Reverse Voltage	125V
$I_{F(AV)}$	Average Forward Current	300mA
$I_{FSM(surge)}$	Repetitive Forward Current	2.5A
T_J	Operating Junction Temperature	-65 to +175°C
T_{STG}	Storage Junction Temperature	-65 to +175°C
$R_{\theta JC}$	Thermal Resistance Junction To Case	20°C/W

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

Parameter		Test Conditions	Min.	Typ.	Max.	Unit
V_{F1}	Forward Voltage	I_F = 10mA (Pulsed)		0.8		V
I_{R1}	Leakage Current	V_R = 20V		35		nA
I_{R2}	Leakage Current	$V_R = V_{RWM}$		0.5		µA
t_{fr}	Forward Recovery Time	I_F = 50mA		20		ns
t_{rr}	Reverse Recovery Time	$I_{RM} = I_F$ = 10mA		4.5		ns
C_{T1}	Total Capacitance	V_R = 0V		2.5		pF

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