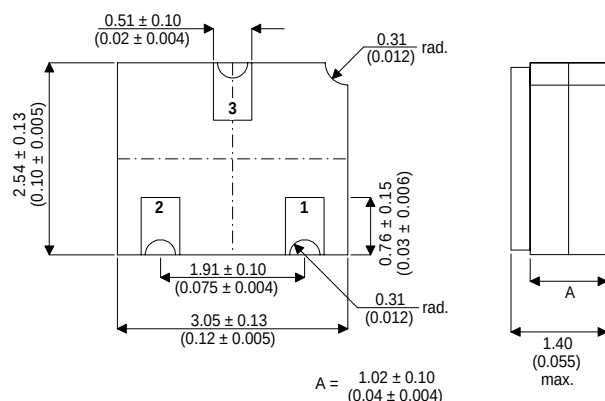


MECHANICAL DATA

Dimensions in mm (inches)



SOT23 CERAMIC (LCC1 PACKAGE)

Underside View

PAD 1 — Anode PAD 2 — N/C PAD 3 — Cathode

SCHOTTKY DIODE IN HERMETIC CERAMIC SURFACE MOUNT PACKAGE FOR HIGH RELIABILITY APPLICATIONS

ABSOLUTE MAXIMUM RATINGS ($T_{MB} = 25^{\circ}\text{C}$ unless otherwise stated)

V_R	Reverse Voltage		30V
I_F	Forward Current ¹	$T_{MB} \leq 25^{\circ}\text{C}$	200mA
		Derate @ $T_{MB} > 25^{\circ}\text{C}$	See Figure 1
I_{FM}	Peak Forward Current		600mA
T_J	Maximum Operating Junction Temperature		-55 to $+135^{\circ}\text{C}$
T_{STG}	Storage Temperature Range		-65 to $+175^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}\text{C}$ unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_R Reverse Current	$V_R = 25\text{V}$			2	μA
	$V_R = 25\text{V}$ $T_A = 85^{\circ}\text{C}$			100	
V_F Forward Voltage	$I_F = 1\text{mA}$			0.32	V
	$I_F = 10\text{mA}$			0.40	
	$I_F = 30\text{mA}$			0.50	
C_O Capacitance	$V_R = 0$ $f = 1\text{MHz}$			10	pF
t_{rr} Reverse Recovery Time	$I_F = 100\text{mA}$ to $I_R = 10\text{mA}$ $R_L = 100\Omega$			5	ns

Figure 1 – Power Derating Curve

