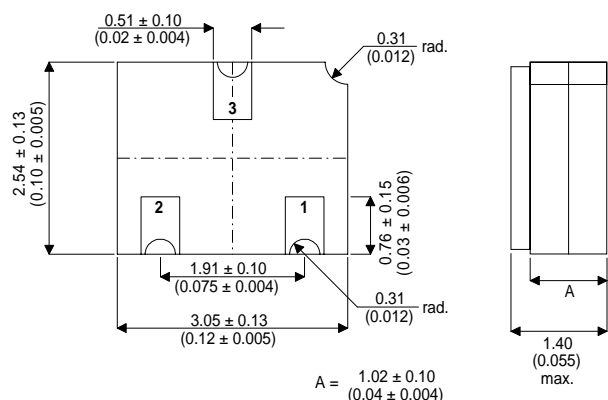


MECHANICAL DATA

Dimensions in mm (inches)



SOT23 CERAMIC (LCC1 PACKAGE)

Underside View

PAD 1 — Anode PAD 2 — Not Connected PAD 3 — Cathode

SILICON EPITAXIAL PLANAR DIODE

General Purpose and
Switching Diode in
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			100	V
V _R RM	Repetitive Peak Reverse Voltage			100	V
I _{F(AV)}	Average Rectified Forward Current			150	mA
I _F	Forward Current			200	mA
I _{FRM}	Repetitive Peak Forward Current			450	mA
I _{FSM}	Non-Repetitive Peak Forward Current	t = 1μs		2000	mA
		t = 1s		500	
P _{tot}	Power Dissipation at T _{amb} = 25 °C			500	mW

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _F	Forward Voltage			1	V
I _R	Reverse Current			25	nA
		V _R = 20V		50	μA
V _{(BR)R}	Reverse Avalanche Breakdown Voltage	I _R = 100μA	100		V
		I _R = 5μA	100		V
C _d	Capacitance			4	pF
V _{fr}	Forward Recovery Voltage			2.5	V
t _{rr}	Reverse Recovery Time	I _F = 10mA to I _R = 60mA		4	ns
		R _L = 100Ω			