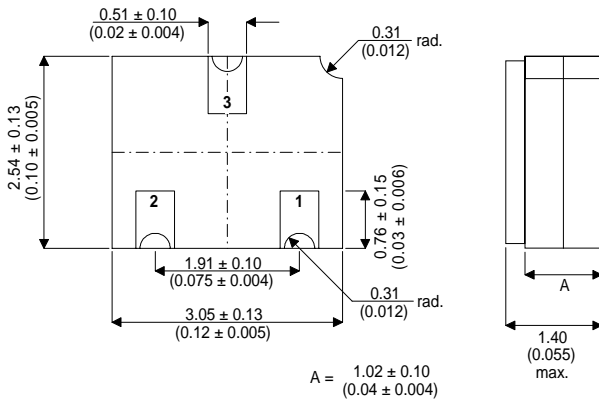


MECHANICAL DATA

Dimensions in mm (inches)



**SOT23 CERAMIC
(LCC1 PACKAGE)**

Underside View

PAD 1 – Base PAD 2 – Emitter PAD 3 – Collector

**GENERAL PURPOSE
PNP TRANSISTOR
IN A HERMETICALLY SEALED
CERAMIC SURFACE MOUNT
PACKAGE**

FEATURES

- GENERAL PURPOSE PNP TRANSISTOR
- HERMETIC CERAMIC SURFACE MOUNT PACKAGE
- CECC SCREENING OPTIONS

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

V _{CBO}	Collector – Base Voltage	-300V
V _{CEO}	Collector – Emitter Voltage	-300V
V _{EBO}	Emitter – Base Voltage	-5V
I _C	Continuous Collector Current	-500mA
P _{tot}	Power Dissipation @ T _{amb} = 25°C	680mW
	@ T _{case} = 25°C	1.8W
T _j T _{stg}	Operating and Storage Temperature	-55 to 175°C

THERMAL CHARACTERISTICS

Parameter	Max.	Unit
R _{th(j-amb)} Thermal Resistance Junction to Ambient	350	°C/W
R _{th(j-case)} Thermal Resistance Junction to Case	80	°C/W

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
$V_{(BR)CBO}$	Collector – Base Breakdown Voltage $I_C = -100\mu\text{A}$ $I_E = 0$	-300			V
$V_{(BR)CEO}$	Collector - Emitter Breakdown Voltage $I_C = -1\text{mA}^*$ $I_B = 0$	-300			V
$V_{(BR)EBO}$	Emitter – Base Breakdown Voltage $I_E = -10\mu\text{A}$ $I_C = 0$	-5			V
I_{CBO}	Collector Cut-off Current $V_{CB} = -200\text{V}$ $I_E = 0$			-0.25	μA
I_{EBO}	Emitter Cut-off Current $V_{EB} = -3\text{V}$ $I_E = 0$			-0.1	
$V_{CE(sat)}$	Collector – Emitter Saturation Voltage $I_C = -20\text{mA}$ $I_B = -2\text{mA}$			-0.5	V
$V_{BE(sat)}$	Emitter Saturation Voltage $I_C = -20\text{mA}$ $I_B = -2\text{mA}$			-0.9	
h_{FE}	Static Forward Current Transfer Ratio	$I_C = -1\text{mA}$ $V_{CE} = -10\text{V}^*$	25		—
		$I_C = -10\text{mA}$ $V_{CE} = -10\text{V}^*$	40		
		$I_C = -30\text{mA}$ $V_{CE} = -10\text{V}^*$	25		
f_T	Transition Frequency $V_{CE} = -20\text{V}$ $I_C = -10\text{mA}$ $f = 20\text{MHz}$	50			MHz
C_{obo}	Output Capacitance $V_{CB} = -20\text{V}$ $f = 1\text{MHz}$			6	pF

* Pulse Test: Pulse Width = 200 μs , Duty Cycle $\leq 2\%$.



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