

## Features

- **Pb-Free package is available**  
RoHS product for packing code suffix "G"  
Halogen free product for packing code suffix "H"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias resistors consist of thin-film resistors with complete isolation to allow negative biasing of the input. They also have the advantage of almost completely eliminating parasitic effects.
- Only the on/off conditions need to be set for operation, making device design easy

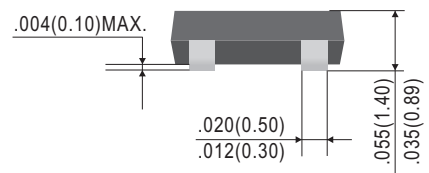
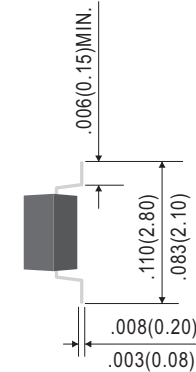
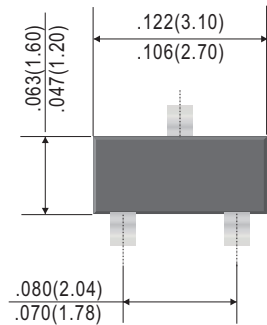
## Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
$V_{CC}$	Supply voltage	---	-50	---	V
$V_{IN}$	Input voltage	-40	---	10	V
$I_O$ $I_{C(MAX)}$	Output current	---	-50 -100	---	mA
$P_d$	Power dissipation	---	200	---	mW
$T_j$	Junction temperature	---	150	---	°C
$T_{stg}$	Storage temperature	-55	---	150	°C

## Electrical Characteristics @ 25°C

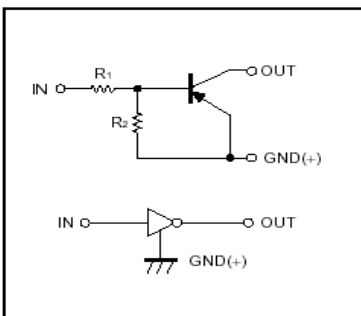
Symbol	Parameter	Min	Typ	Max	Unit
$V_{I(off)}$	Input voltage ( $V_{CC}=-5V, I_O=-100 \mu A$ )	-0.5	---	---	V
$V_{I(on)}$	Input voltage ( $V_O=-0.3V, I_O=-10mA$ )	---	---	-3.0	V
$V_{O(on)}$	Output voltage ( $I_O/I_I=-10mA/-0.5mA$ )	---	---	-0.3	V
$I_I$	Input current ( $V_I=-5V$ )	---	---	-0.88	mA
$I_{O(off)}$	Output current ( $V_{CC}=-50V, V_I=0$ )	---	---	-0.5	$\mu A$
$G_1$	DC current gain ( $V_O=-5V, I_O=-5mA$ )	30	---	---	
$R_1$	Input resistance	7.0	10	13	K $\Omega$
$R_2/R_1$	Resistance ratio	0.8	1.0	1.2	
$f_T$	Transition frequency ( $V_O=-10V, I_O=5mA, f=100MHz$ )	---	250	---	MHz

## SOT-23



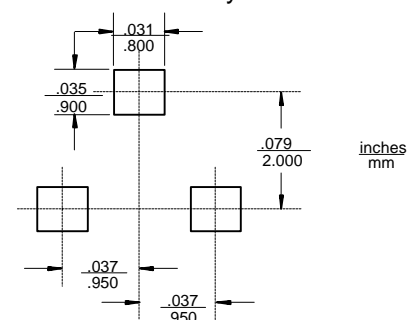
Dimensions in inches and (millimeters)

## Equivalent circuit



MARKING: 14

## Suggested Solder Pad Layout



# Typical Characteristics

