

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

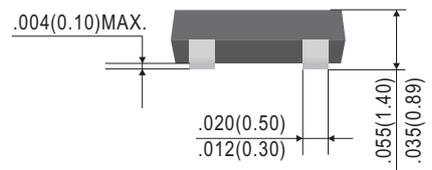
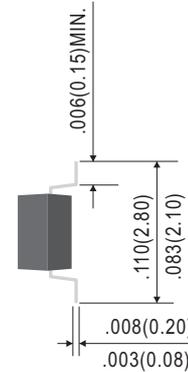
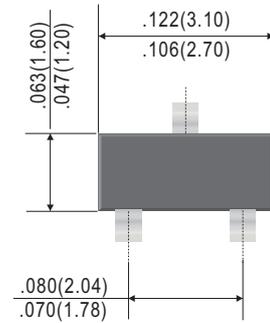
Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
V _{CC}	Supply voltage	---	50	---	V
V _{IN}	Input voltage	-10	---	40	V
I _O	Output current	---	30	---	mA
I _{C(MAX)}	Output current	---	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

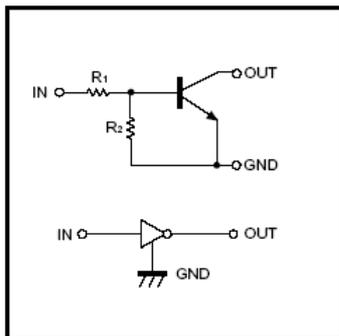
Symbol	Parameter	Min	Typ	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =5V, I _O =100 μA)	0.5	---	---	V
V _{I(on)}	Input voltage (V _O =0.2V, I _O =5mA)	---	---	3.0	V
V _{O(on)}	Output voltage (I _O /I _I =10mA/0.5mA)	---	0.1	0.3	V
I _I	Input current (V _I =5V)	---	---	0.36	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)	---	---	0.5	μA
G ₁	DC current gain (V _O =5V, I _O =5mA)	56	---	---	
R ₁	Input resistance	15.4	22	28.6	KΩ
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



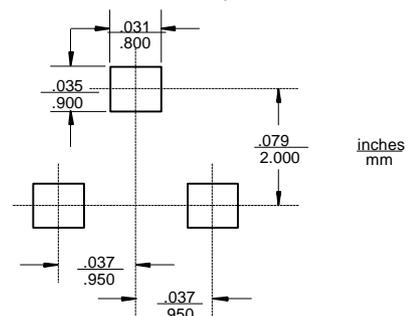
Dimensions in inches and (millimeters)

Equivalent circuit



*Marking: 25

Suggested Solder Pad Layout



Typical Characteristics

