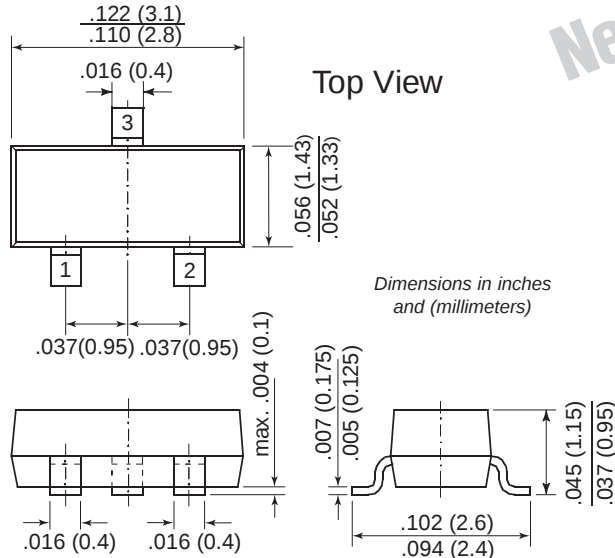


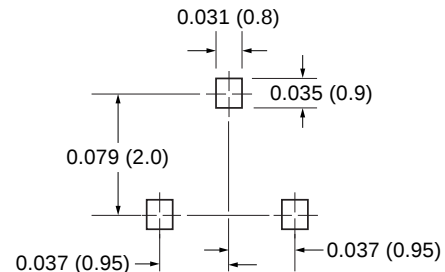


TO-236AB (SOT-23)

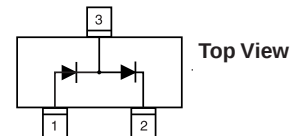


New Product

Mounting Pad Layout



Schematic



Mechanical Data

Case: SOT-23 Plastic Package

Weight: approx. 0.008g

Marking Code: S20

Packaging Codes/Options:

E8/10K per 13" reel (8mm tape), 30K/box

E9/3K per 7" reel (8mm tape), 30K/box

Features

- Low forward voltage drop
- Ultrafast switching
- Ideal for hard-disk drive applications

Maximum Ratings and Thermal Characteristics (T_C = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	20	V
Forward Current	I _F	500	mA
Thermal Resistance Junction to Ambient Air	R _{θJA}	500 ⁽¹⁾	°C/W
Maximum Junction Temperature	T _j	150	°C
Storage Temperature Range	T _S	-65 to +150	°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Minimum Reverse Breakdown Voltage at 10μA	V _{(BR)R}	20	V
Maximum Leakage Current at V _R = 10V	I _R	20	μA
Maximum Forward Voltage at I _F = 50mA I _F = 150mA	V _F	400 500	mV
Typical Diodes Capacitance at V _R = 0V, f = 1MHz	C _D	370	pF
Typ. Reverse Recovery Time at I _F = I _R = 100mA	t _{rr}	32	ns

Note: (1) Valid provided that electrodes are kept at ambient temperature