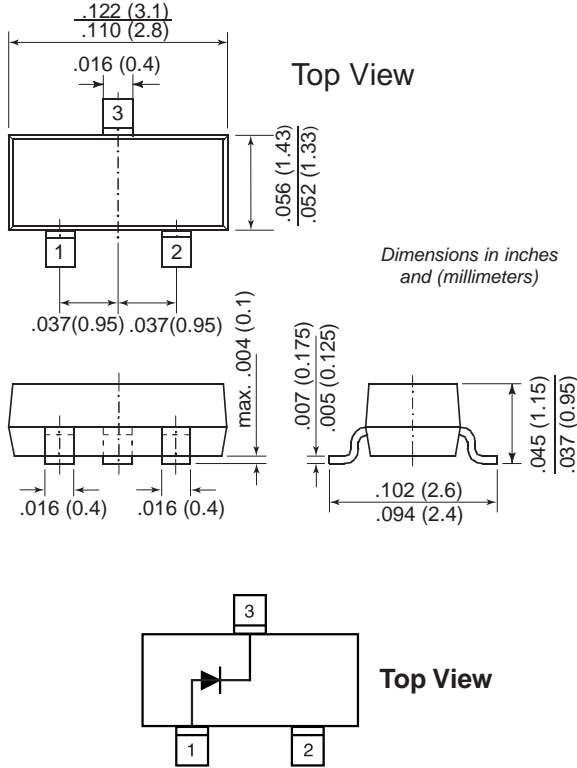




Small-Signal Switching Diode



TO-236AB (SOT-23)



Features

- Silicon Epitaxial Planar Diode
- Fast switching diode in case SOT-23, especially suited for automatic insertion.

Mechanical Data

Case: SOT-23 Plastic Package

Weight: approx. 0.008 g

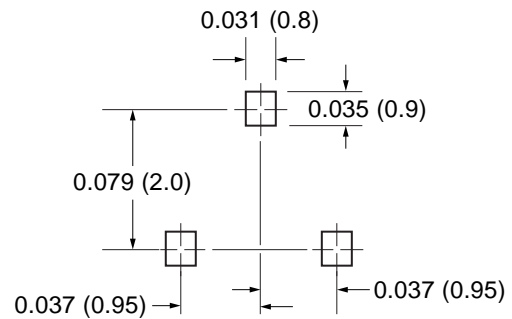
Marking Code: 5D

Packaging Codes/Options:

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

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

Mounting Pad Layout



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

Parameter	Symbol	Limit	Unit
Peak Reverse Voltage	V _{RM}	100	V
Maximum Average Rectified Current	I _{F(AV)}	200	mA
Maximum Power Dissipation at T _{amb} = 25°C	P _{tot}	225	mW
Maximum Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	-55 to +150	°C

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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage Drop	V _F	I _F = 10mA	—	—	1.0	V
Reverse Current	I _R	V _R = 20V V _R = 75V	—	—	25 5.0	nA μA
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, V _R = 6V, R _L = 100Ω, to I _{rr} = 1mA	—	—	4.0	ns
Capacitance	C _{tot}	V _R = 0, f = 1.0MHz	—	—	4.0	pF