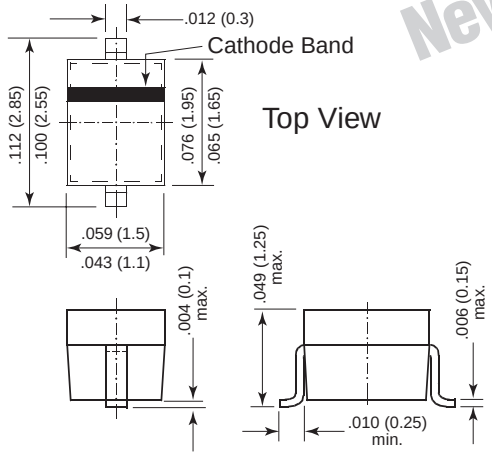
GENERAL SEMICONDUCTOR®

BAT60WS

Schottky Diodes

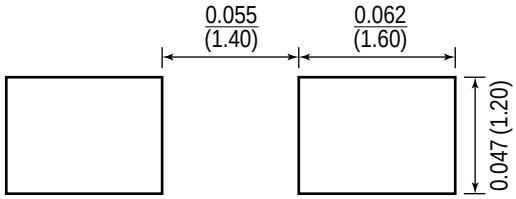
SOD-323

New Product



Dimensions in inches and (millimeters)

Mounting Pad Layout



Mechanical Data

Case: SOD-323 Plastic Package

Weight: approx. 0.004g

Marking Code: L5

Packaging Codes – Options:

D5 – 10K per 13” reel (8mm tape), 30K/box

D6 – 3K per 7” reel (8mm tape), 30K/box

Features

- Low turn-on voltage
- Low capacitance
- Ultrafast switching
- Microminiature plastic package
- Single, double, and ring balanced mixer in narrow-band receivers up to 1 GHz
- Detectors and fast switching up to 1 GHz
- Phase detectors
- Suitable for radios, TV, CTV, and hyper band tuners

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

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	10	V
Forward Current	I_F	3	A
Peak Forward Surge Current	I_{FSM}	5	A
Power Dissipation T_S = 28°C	P_{tot}	1350	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_S	–55 to +150	°C
Thermal Resistance Junction to Ambient Air (1)	$R_{\Theta JA}$	200	°C/W
Thermal Resistance Junction to Soldering Point	$R_{\Theta JS}$	90	°C/W

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

Parameter		Symbol	Value	Unit
Maximum Forward Voltage	at I_F = 10mA at I_F = 100mA at I_F = 1.0A	V_F	0.24 0.32 0.49	V
Maximum DC Reverse Current	at V_R = 5V, T_A = 25°C at V_R = 8V, T_A = 80°C	I_R	8 600	μA

Note:

(1) Device mounted on expoxy PCB 40mm x 40mm x 1.5mm, 0.5cm^2 Cu.

6/5/01