



SURFACE MOUNT FAST SWITCHING DIODE

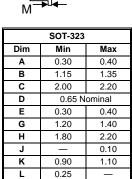
Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material UL Recognition Flammability Classification 94V-O

K H H

TOP VIEW

В



0.05

All Dimensions in mm

М

0.15

Mechanical Data

Case: SOT-323, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

• Weight: 0.006 grams (approx.)

Mounting Position: Any

Marking: JF

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 3

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	75	V
Forward Continuous Current (Note 1)	lF	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Peak Forward Surge Current (Note 1) @ t < 1.0μs	I FSM	2.0	А
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

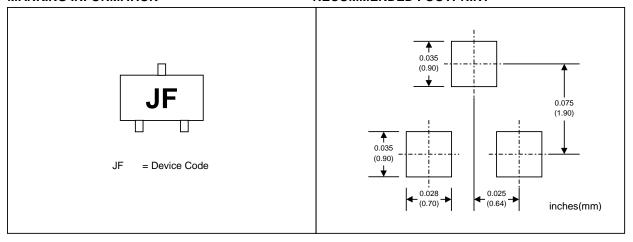
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF	_	0.855 1.0	V	@ IF = 10mA @ IF = 50mA
Reverse Leakage Current	lr	_	2.5	μΑ	@ VR = 75V
Junction Capacitance	Cj	_	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	6.0	nS	IF = IR = 10mA, IRR = 0.1 x IR, RL = 100Ω

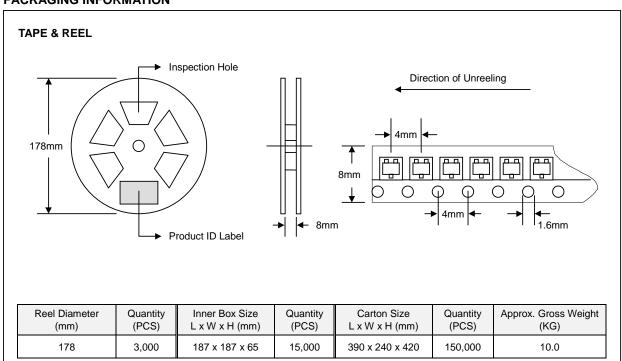
Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
BAL99W-T1	SOT-323	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAL99W-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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