

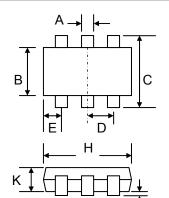
BAT54ADW / CDW / SDW

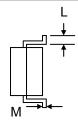
SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY



Features

- Quad Diode Com. Anode, Cathode and Series
- Low Forward Voltage
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0





Dim

Α

В

С

D

Ε

Н

J

K

SOT-363

Min

0.10

1.15

2.00

0.40

1.80

0.25

0.10

All Dimensions in mm

0.65 Typical

1.0 Typical

Max

0.30

1.35

2.30

0.50

2.20

0.10

0.40

0.22

Mechanical Data

Case: SOT-363, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

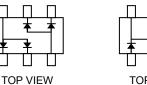
Polarity: See Diagram

• Weight: 0.006 grams (approx.)

Mounting Position: Any

Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4







BAT54SDW

Maximum Ratings @TA=25°C unless otherwise specified

BAT54ADW

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	V
Forward Continuous Current	lF	200	mA
Repetitive Peak Forward Current	IFRM	300	mA
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	IFSM	600	mA
Operating and Storage Temperature Range	ТЈ, Тѕтс	-55 to +125	°C

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	625	°C/W

Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

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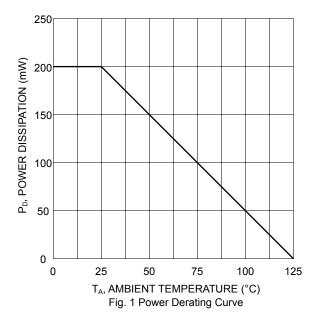
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Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 100μA	V(BR)	30			V
Forward Voltage Drop	@ IF = 0.1mA @ IF = 1.0mA @ IF = 10mA @ IF = 30mA @ IF = 100mA	VF			0.24 0.32 0.40 0.50 1.00	V
Reverse Leakage Current	@ VR = 25V	lr			2.0	μΑ
Diode Capacitance (VR = 1.0V, f = 1.0MHz)		C _D			10	pF
Reverse Recovery Time (IF = IR = 10mA, IRR = 0.1 x IR, RL = 100Ω)		trr			5.0	nS



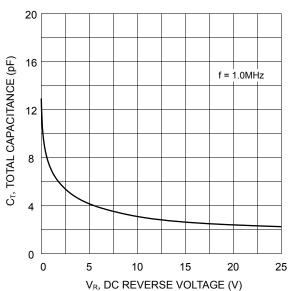
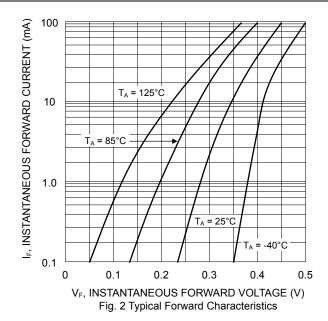
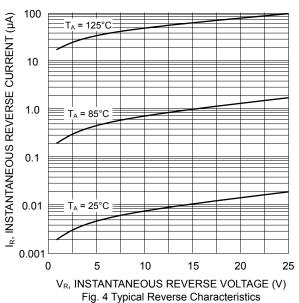


Fig. 3 Total Capacitance vs. Reverse Voltage

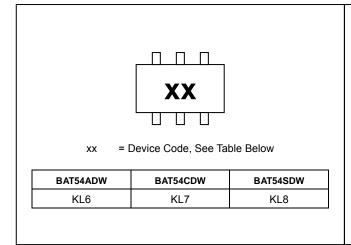


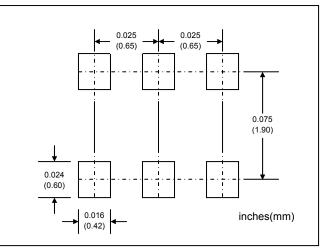




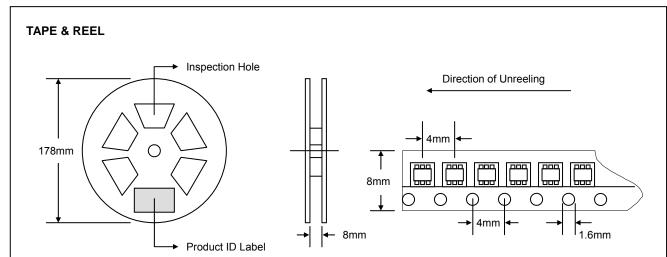
MARKING INFORMATION

RECOMMENDED FOOTPRINT





PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

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
BAT54ADW-T1	SOT-363	3000/Tape & Reel
BAT54CDW-T1	SOT-363	3000/Tape & Reel
BAT54SDW-T1	SOT-363	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" 1.
- 2. suffix to part number above. For example, BAT54ADW-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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