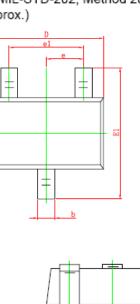
SANGDEST BAT54W/AW/CW/SW N SURFACE MOUNT SCHOTTKY BARRIER DIODE **MICROELECTRONICS Technical Data** Data Sheet N0027, Rev. A

Features

- Low Turn-on Voltage .
- Fast Switching .
- PN Junction Guard Ring for Transient and . ESD Protection
- Both normal and Pb free product are available: Normal:80~95% Sn, 5~20% Pb
 - Pb free:98.5% Sn above
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: SOT-323, Plastic ٠
- Terminals: Solderable per MIL-STD-202, Method 208 .
- Weight: 0.0052 grams (approx.)





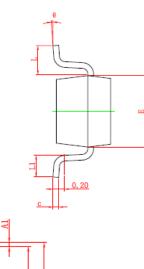


COMMON ANODE



COMMON CATHODE





Dimensions In Millimeters Dimensions In Inches Symbol Min Max Min Мах A 0.900 1.100 0.035 0.043 A1 0.000 0.100 0.000 0.004 A2 0.900 1.000 0.035 0.039 0.200 0.008 0.016 b 0.400 С 0.080 0.150 0.003 0.006 2.000 0.079 0.087 D 2.200 1.350 1.150 0.053 E 0.045 2.150 E1 2.450 0.085 0.096 0.650 TYP 0.026 TYP е 0.055 1.200 1.400 0.047 e1 L 0.525 REF 0.021 REF 0.260 0.010 0.018 L1 0.460 θ 0° 8° 0° 8°

SOT-323

• Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 • • FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •

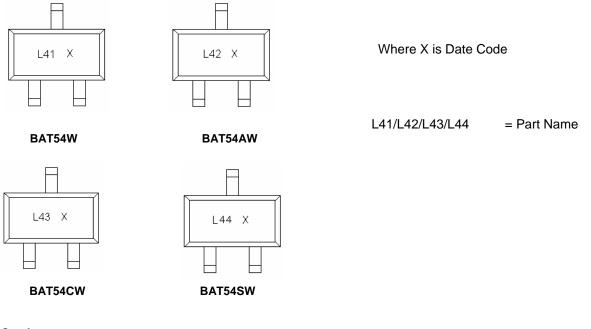
Green Products

SMC SANGDEST MICROELECTRONICS

BAT54W/AW/CW/SW SURFACE MOUNT SCHOTTKY BARRIER DIODE

Technical Data Data Sheet N0027, Rev. A **Green Products**

Marking Diagram:



Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping		
BAT54W/AW/CW/SW	SOT-323(Pb-Free)	3000pcs / reel		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

SMC SANGDEST MICROELECTRONICS

BAT54W/AW/CW/SW SURFACE MOUNT SCHOTTKY BARRIER DIODE

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Green Products

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

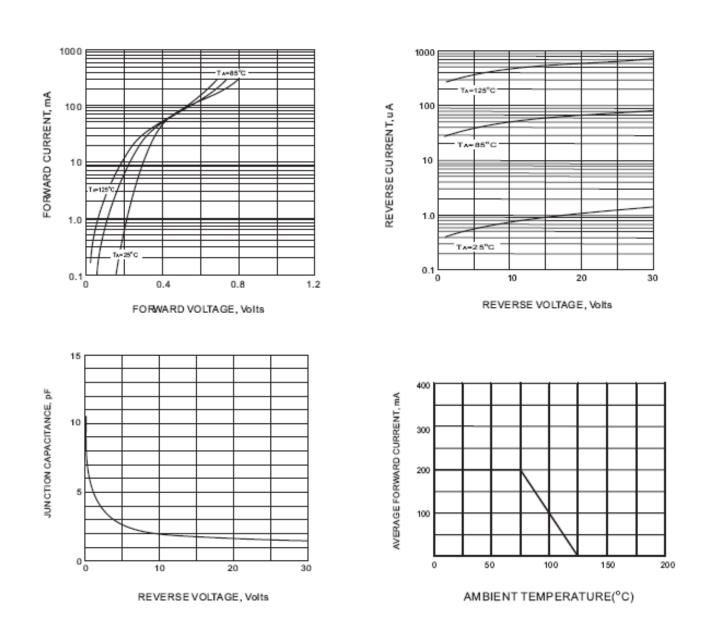
Characteristic	Symbol	BAT54W	BAT54AW	BAT54CW	BAT54SW	Unit	
Marking code		L41	L42	L43	L44		
Peak Repetitive Reverse Voltage	VRRM	30			V		
Average Rectified Output Current at Ta = 75°C	lo	200			mA		
Maximum Instantaneous Forward Voltage @ I _F = 1mA @ I _F = 100mA	Vf	0.32			V		
Maximum DC Reverse Current at Rated DC Blocking voltage @ V _R = 25 V		2.0			μA		
Peak Forward Surge Current, 1.0s (JEDEC method)	IFSM	IFSM 600		mA			
Junction Capacitance at V _R = 1 V	Cj	10		pF			
Thermal Resistance, Junction to Ambient Air	R⊕ja	635		°C/W			
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +125			°C		
Circuit Figure	-	Single	Common Anode	Common Anode	Series	-	



BAT54W/AW/CW/SW SURFACE MOUNT SCHOTTKY BARRIER DIODE

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Green Products





BAT54W/AW/CW/SW SURFACE MOUNT SCHOTTKY BARRIER DIODE

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Green Products

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