

BRBAT54WAQ/AWAQ/CWAQ/SWAQ

Rev.A May.-2023

/ Descriptions

SOT-323

Silicon Diode in a SOT-323 Plastic Package.

/ Features

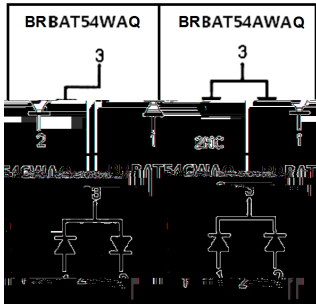
AEC-Q101

Schottky diodes, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

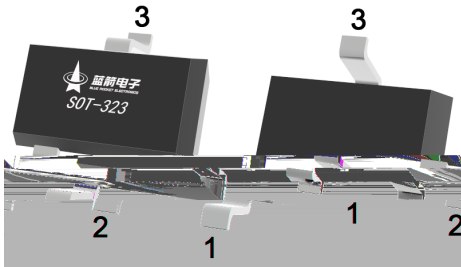
/ Applications

High Conductance Ultra Fast Diode, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN: See Equivalent Circuit.

/ Marking

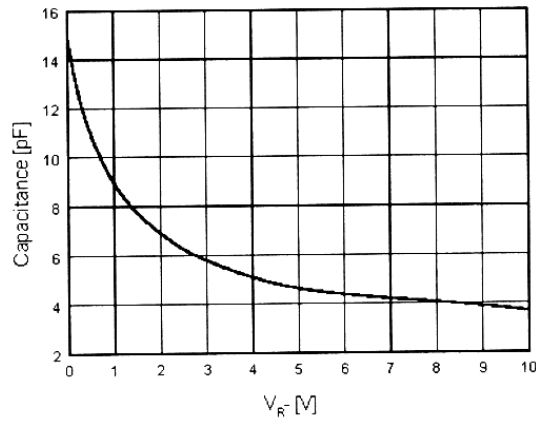
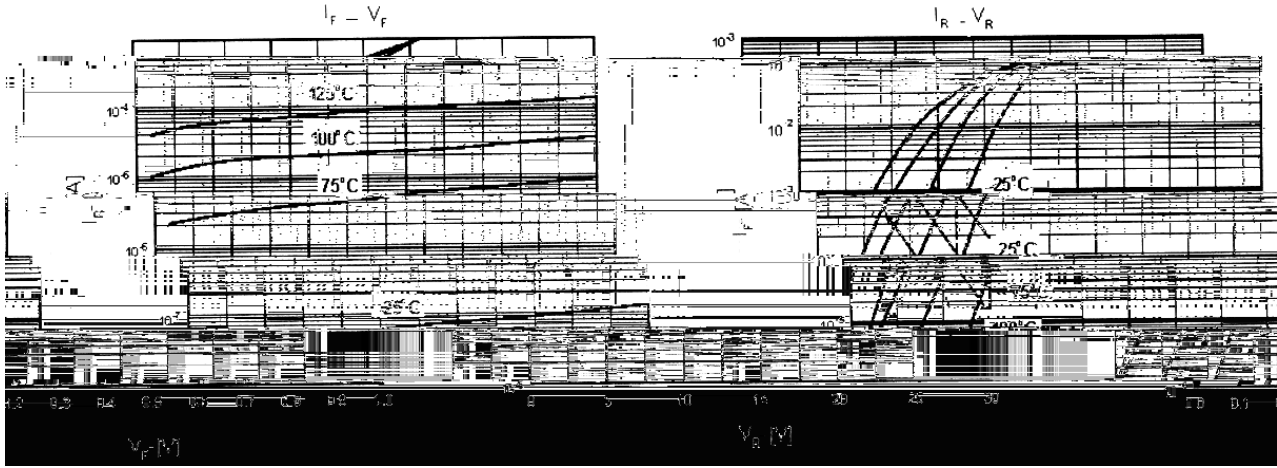
Model	BRBAT54WAQ	BRBAT54AWAQ	BRBAT54CWAQ	BRBAT54SWAQ
Marking	QL4P	QL42	QL43	QL44

BRBAT54WAQ/AWAQ/CWAQ/SWAQ

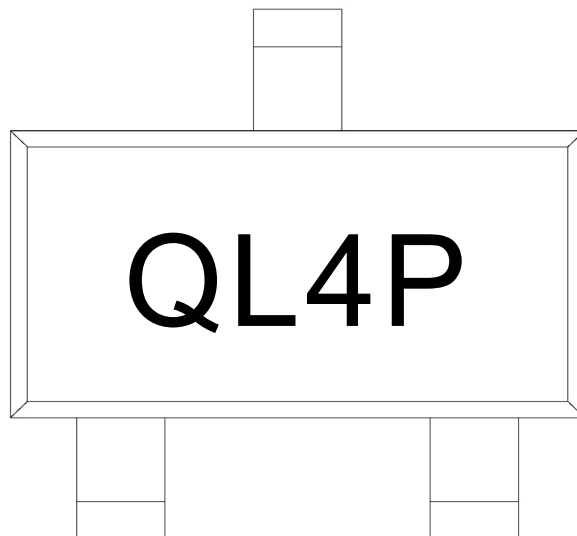
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Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	300	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	1	A
Power Dissipation	P_{tot}	230	mW

/ Electrical Characteristic Curve



/ Marking Instructions



Q

L4P

Note:

Q: Automobile halogen-free product Code

L4P: Product Type

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1 150 200 60 120sec; 1.Preheating:150~200 , Time:60~120sec.
- 2 255±5 5±0.5sec; 2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3 2 10 /sec. 3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)	
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒