

BAT46W

0.15A Surface Mount Schottky Barrier Rectifiers - 100V

Features

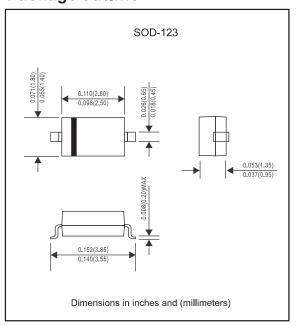
- ◆ For use in low voltage, high frequency inverters
- ◆ Free wheeling, and polarity protection applications

Mechanical data

- ◆ Case: JEDEC SOD-123 molded plastic body
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any



Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage	V _{RRM} V _{RWM}	100	V
Forward continuous current	l _F	150	mA
Repetitive peak forward current (Note 1) @ tp < 1.0s, Duty Cycle < 50%	I _{FRM}	350	mA
Non-repetitive Peak Forward surge current @ t = 8.3ms	I _{FSM}	750	mA
Power dissipation	P _D	500	mW
Thermal resistance junction to ambient air	R _{0JA}	200	°C/W
Operating Junction Temperature Range	Tj	- 40 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reverse breakdown voltage(Note 2)	V_R	I _R = 100μA	100			V
Reverse voltage leakage current	I _R	V _{R1} =1.5V			0.3	μΑ
		V _{R2} =10V			0.5	
		V _{R3} =50V			1	
		V _{R4} =75V			2	
Forward voltage(Note 2)	V _F	I _{F1} =0.1mA			0.25	V
		I _{F2} =10mA			0.45	
		I _{F3} =250mA			1	
Diode capacitance	Ст	V _R =0, f=1MHz		20		pF
		V _R =1V, f=1MHz		12		

Notes: 1. Part mounted on FR-4 board with recommended pad layout.

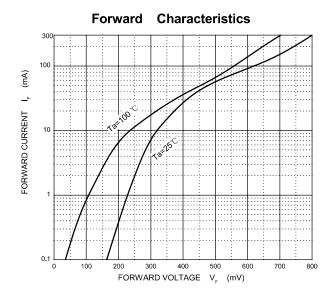
2. Short duration pulse test used to minimize self-heating effect.

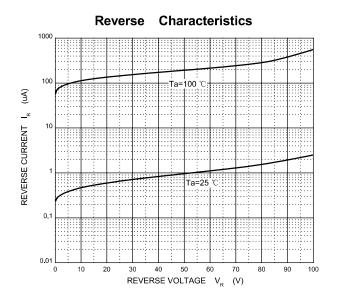


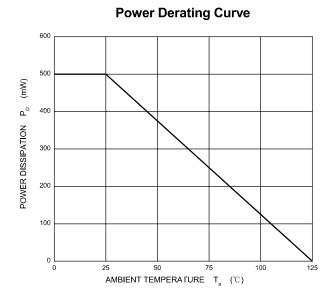
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Rating and characteristic curves







Marking

Type number	Marking code	
BAT46W	S9	

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