[∞]**@**REATEK

BAV23 Series

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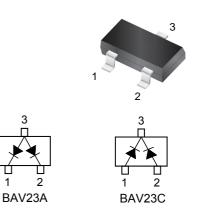
Dual Switching Diode in SOT-23

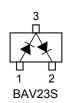
Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

Mechanical Data

- Case: SOT-23 (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals





Applications

- Single Switch
- Polarity Protection

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage	V _{RRM} V _{RWM}	250	V
RMS Reverse Voltage	V _R	175	V
Average Rectified Output Current	IO	225	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	1.7	A
Power Dissipation	Pd	350	mW
Thermal resistance, junction to ambient air	R _{0JA}	355	°C/W
Operating and Storage temperature	T _j ,T _{STG}	-55-150	°C

Electrical Characteristics

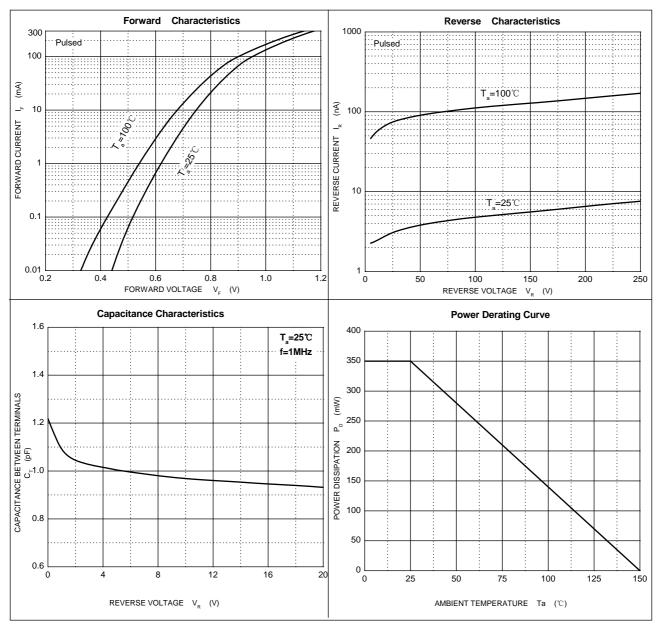
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =100μA	250		V
Reverse voltage leakage current	I _R	V _R =250V		0.1	μA
Forward voltage	V _F	I _F =100mA		1000	mV
i olward voltage		I _F =200mA		1250	inv
Diode capacitance	CD	V _R =0V, f=1MHz		5	pF
Reveres recovery time	trr	I _F =I _R =30mA,I _{ff} =0.1×I _R ,R _L =100 Ω		50	ns

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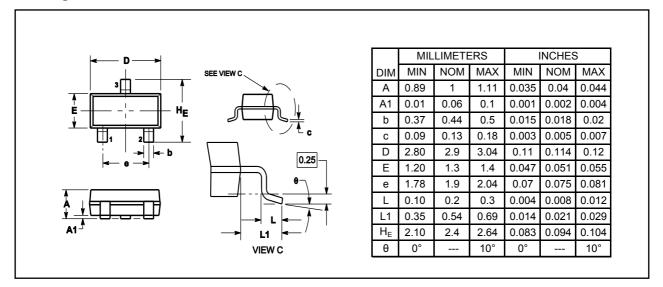
Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



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Package Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
BAV23 Series	SOT-23	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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