

BAT43WS -

SMALL SIGNAL DIODE VOLTAGE RANGE 30 Volts

FEATURES

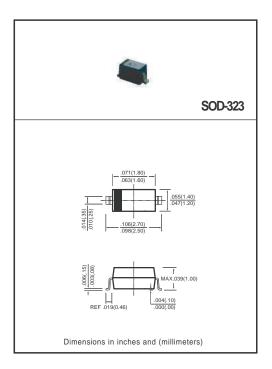
- * Low Forward Voltage Drop
- * Fast Switching Time
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * Also Available in Lead Free Version

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.004 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



$\textbf{MAXIMUM RATINGS} \; (@T_A = 25^{\circ}C \; \text{unless otherwise noted})$

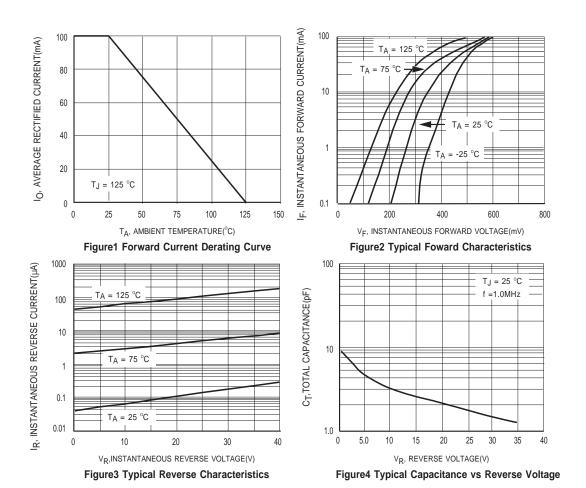
RATINGS	OVANDOL	BAT43WS	LINUTO
RATINGS	SYMBOL	BA143WS	UNITS
Reverse Breakdown Voltage @ I _R =100μA	V _{(BR)R}	30	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	VRRM VRWM VR	30	Volts
Maximum RMS Voltage	VRMS	21	Volts
Maximum Forward Comtinuous Current	IFM	200	mAmps
Repetitive Peak Forward Current @t<1.0s	IFRM	500	mAmps
Non-Repetitive Peak Forward Surge Current @t<10ms	IFSM	4.0	Amps
Typical Reverse Recovery Time (I _F =I _R =10mA,Irr=0.1xI _R ,R _L =100Ω)	Trr	5	rlS
Typical Junction Capacitance (V _R =1.0,f=1.0MHz)	Ст	10	pF
Maximum Power Dissipation (Note 1)	PD	200	mW
Typical Thermal Resistance	R JA	625	K/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 125	°C

ELECTRICAL CHARACTERISTICS (@T_A=25°C unless otherwise noted)

==== interior = interior (CTA=20 C dimension interior)							
	CHARACTERISTICS		SYMBOL	BAT43WS	UNITS		
	Maximum Instantaneous Forward Voltage	@IF=2mA @IF=15mA	VF	0.33 0.45	Volts		
	Maximum Instantaneous Peverse Current	@ VR=25V	IR	0.5	uAmps		

Note 1. Part mounted on FR-4 PC board with minimunm recommended pad layout.

RATING AND CHARACTERISTICS CURVES (BAT43WS)



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