

BAT42WS THRU BAT43WS

VOLTAGE RANGE
CURRENT

30 Volts
4.0 Ampere

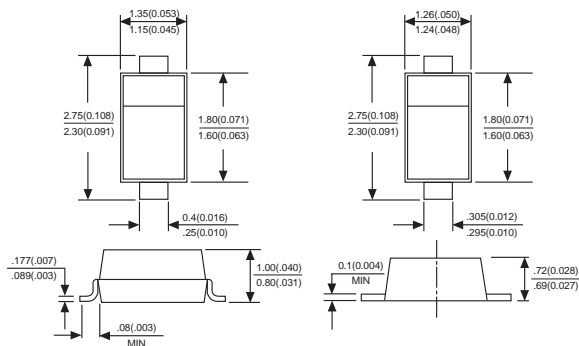
FEATURES

- 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 body
- Terminals : Plated leads solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbols marked on case
- Marking : BAT42WS:S7, BAT43WS:S8

SOD-323



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Maximum ratings and electrical characteristics, Single diode @ T_A=25°C

PARAMETER	SYMBOLS	BAT42WS/BAT43WS				UNITS
Peak repetitive peak reverse voltage	V _{RRM}	30				VOLTS
Working peak reverse voltage	V _{RWM}					
DC Blocking voltage	V _R					
RMS Reverse voltage	V _{R(RMS)}	21				V
Forward continuous current	I _{FM}	200				mA
Repetitive peak forward current @ <1.0s	I _{FRM}	500				mA
Peak forward surge current @ <10ms	I _{FSM}	4.0				A
Power dissipation	P _d	200				mW
Thermal resistance junction to ambient	R _{θJA}	625				K/W
Storage temperature	T _{STG}	-55 to +125				°C
Electrical ratings @ T _A =25°C						
PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	V _{BR}	30			V	I _R =10uA
Forward voltage	V _F			1.0	V	I _F =200mA
	V _F			0.4	V	I _F =10mA
	V _F			0.65	V	I _F =50mA
	V _F	0.26		0.33	V	I _F =2mA
	V _F			0.45	V	I _F =15mA
Reverse current	I _R			0.5	uA	V _R =25V
Capacitance between terminals	C _T			10	pF	V _R =1V, f=1.0MHZ
Reverse recovery time	t _{rr}			5	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω

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