

BAT42WS~BAT43WS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE	30 Volts	CURRENT	0.20 Amperes
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FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

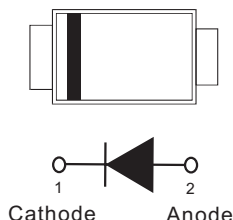
MECHANICAL DATA

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity : Color band cathode

Approx. Weight: 0.004 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	BAT42WS	BAT43WS	Units
Marking Code		L2	L3	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30		V
Maximum RMS Voltage	V_{RMS}	21		V
Maximum DC Blocking Voltage	V_{DC}	30		V
Maximum Average Forward Current at $T_A=75^{\circ}C$	$I_{F(AV)}$	0.2		A
Peak Forward Surge Current, 1.0ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	4.0		A
Maximum Instantaneous Forward Voltage	V_F	0.4 / 10mA 1.0 / 200mA	0.33 / 2.0mA 1.0 / 200mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5		μA
Maximum Thermal Resistance	$R_{\theta JA}$	635		$^{\circ}C / W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125		$^{\circ}C$

Note : 1.C_J at $V_R=1$, $f=1MHz$

2.Mounted on FR-4 board with recommended pad layout