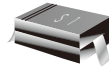
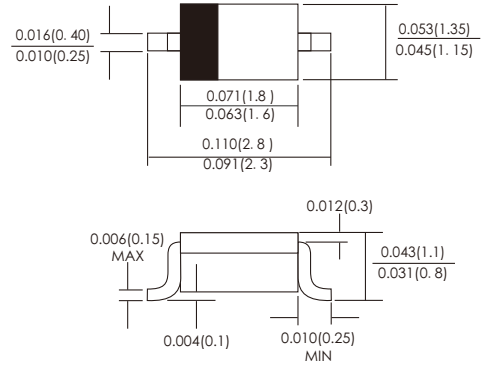


FEATURES

- For general purpose applications
- Low Forward Voltage Drop
- High Current Capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



SOD-323



MECHANICAL DATA

- Case: SOD-323
- Polarity: Color band denotes cathode end
- Marking: S1

Dimensions in inches and (millimeters)

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	Units
Continuous Reverse Voltage	V_R	30	V
Forward Continuous Current at $T_A=25^\circ\text{C}$	I_F	200 ¹⁾	mA
Peak Forward Surge Current 8.3 ms single half sine-wave	I_{FSM}	600	mA
Power Dissipation	P_D	230 ¹⁾	mW
Junction temperature	T_J	125	$^\circ\text{C}$
Ambient Operating temperature Range	T_A	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	Unis
Reverse breakdown voltage Tested with 10 μA Pulses	$V_{(BR)R}$	30			V
Forward voltage					
at $I_F=0.1\text{mA}$,	V_F			0.240	V
at $I_F=1\text{mA}$,	V_F			0.320	V
at $I_F=10\text{mA}$,	V_F			0.400	V
at $I_F=30\text{mA}$,	V_F			0.500	V
at $I_F=100\text{mA}$	V_F			1.000	V
Leakage current $V_R=25\text{V}$	I_R			2.0	μA
Junction Capacitance at $V_R=1\text{V}$, $f=1\text{MHz}$	C_J			10	pF
Reverse recovery time Form $I_F=10\text{mA}$ $V_R=6\text{V}$ $I_R=10\text{mA}$	t_{rr}			6	ns
Thermal resistance junction to ambient Air	$R_{\theta JA}$			500	K/W

RATINGS AND CHARACTERISTIC CURVES BAT54WS

Typical Characteristics

