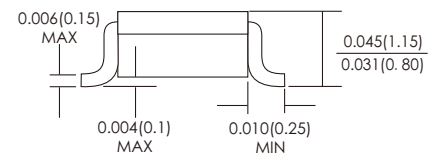
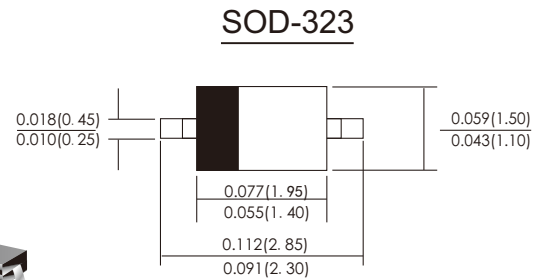


FEATURES

- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SOD-323 plastic case
- Marking: S9



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

Parameter	Symbols	BAT46WS	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	75	V
Continuous Forward Current	I_F	150	mA
Non-repetitive Peak Forward Surge Current@ $t = 8.3ms$	I_{FSM}	0.75	A
Total Power Dissipation	P_{tot}	200	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

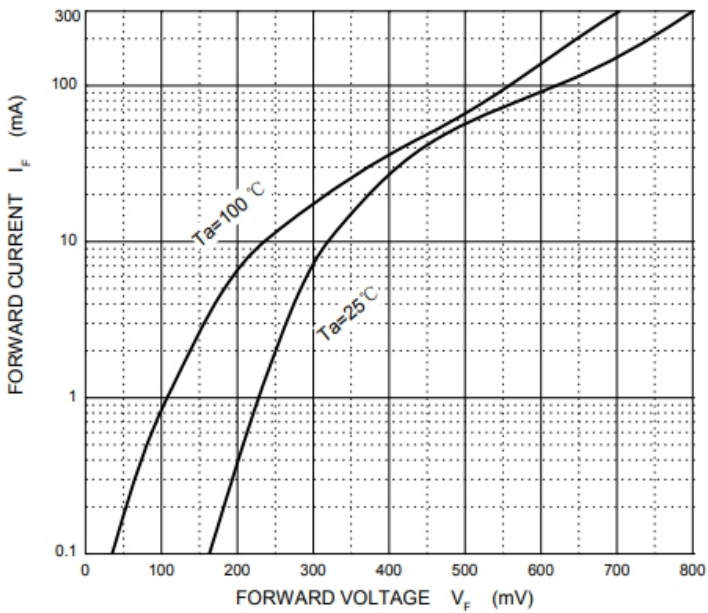
ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

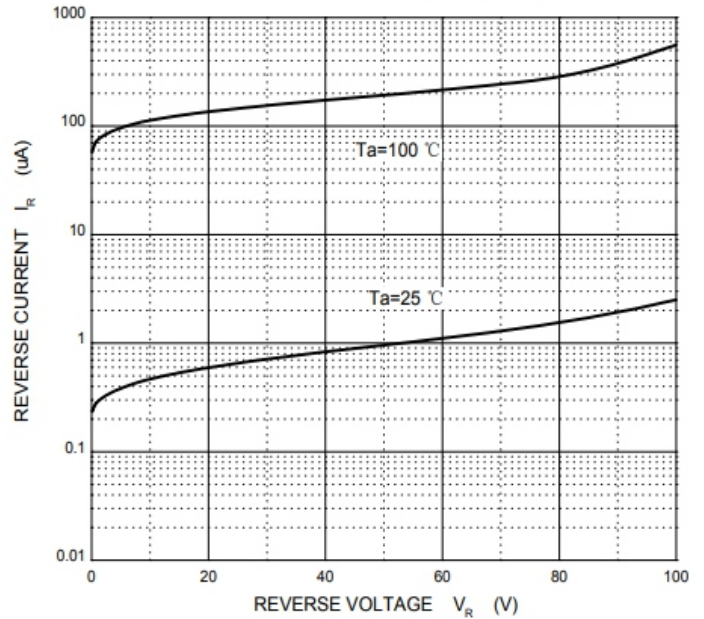
Parameter	Symbols	BAT46WS	Units
Reverse Breakdown Voltage at $I_R=100\mu A$	$V_{(BR)R}$	100	V
Maximum Forward Voltage	V_F	at 0.1 mA	0.250
		at 1.0 mA	0.450
		at 250 mA	1.0
Peak Reverse Current	I_R	at $V_R=1.5V$	0.3
		at $V_R=10V$	0.5
		at $V_R=50V$	1
		at $V_R=75V$	2
Typical Junction Capacitance	C_j	20	pF
Thermal resistance junction to ambient air	$R_{\theta JA}$	500	°C/W

RATINGS AND CHARACTERISTIC CURVES BAT46WS

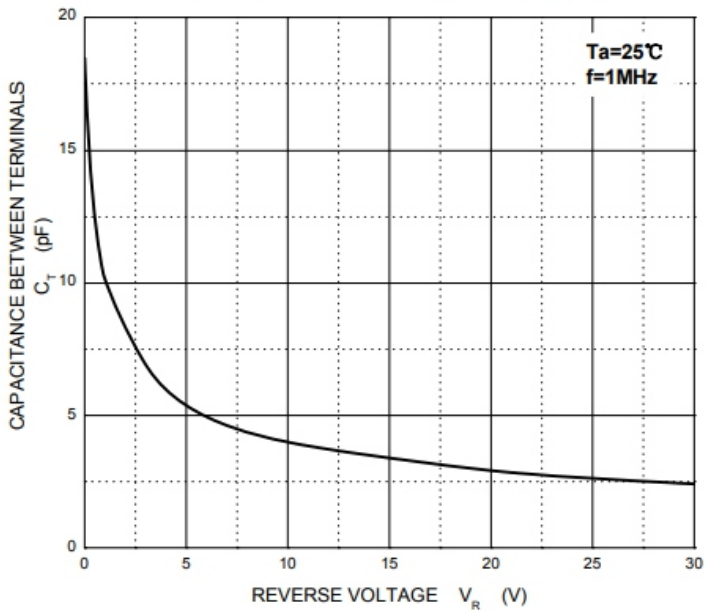
Forward Characteristics



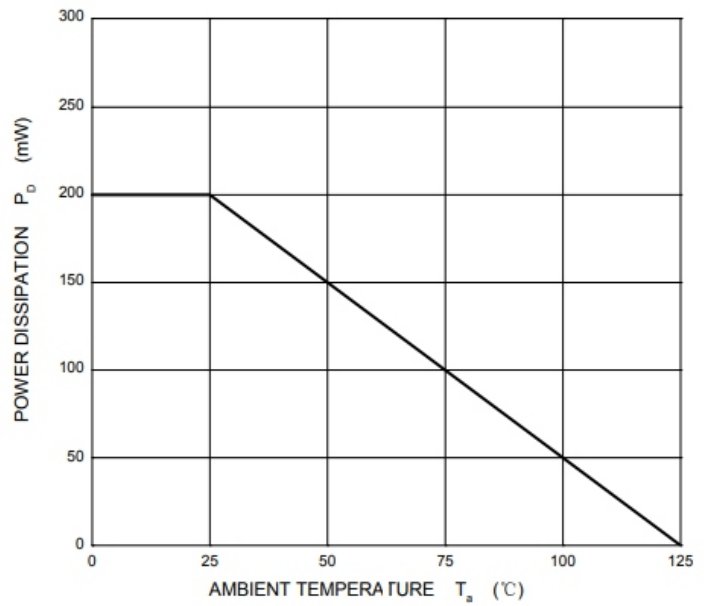
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAT46WS	SOD323	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	