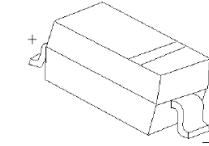




## SOD-323 Plastic-Encapsulate Diodes

**BAT42WS/BAT43WS** SCHOTTKY BARRIER DIODE

SOD-323



### FEATURES

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

**MARKING:** BAT42WS S7  
BAT43WS S8

### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

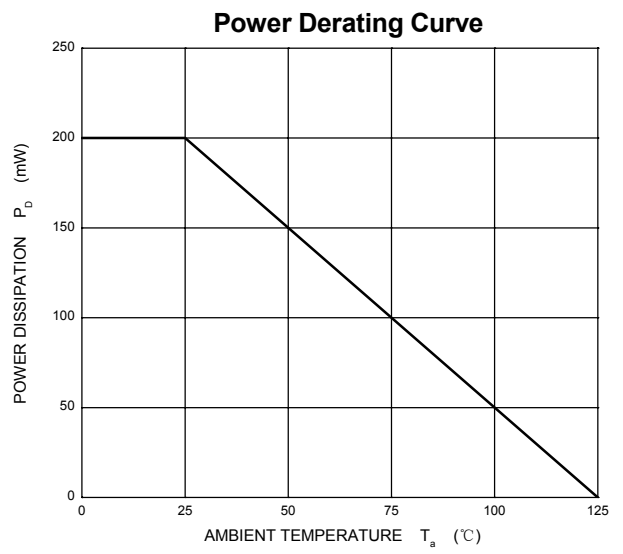
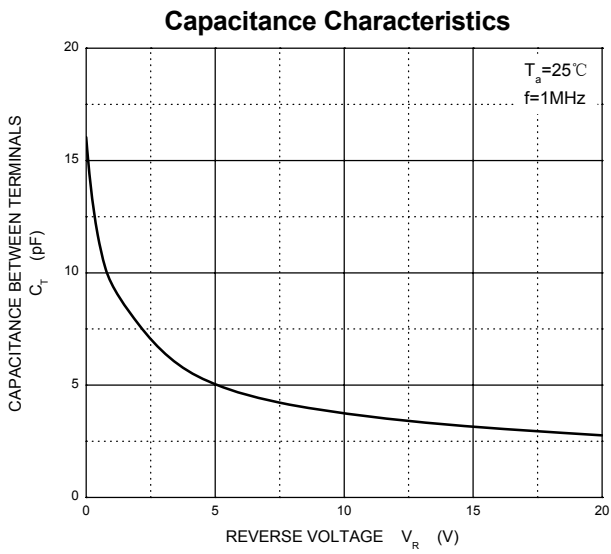
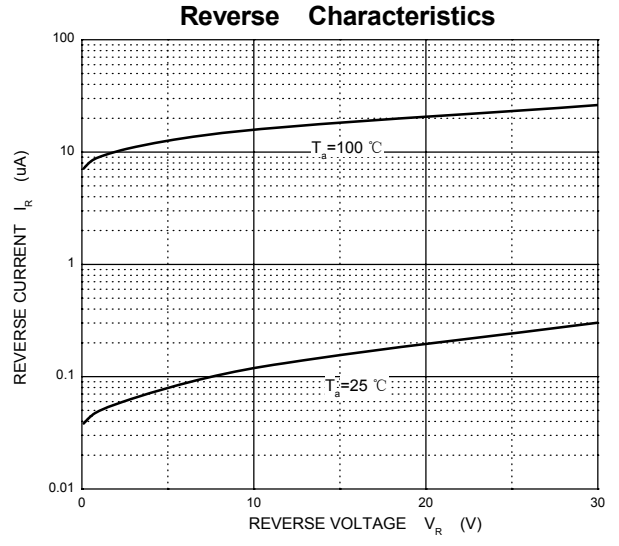
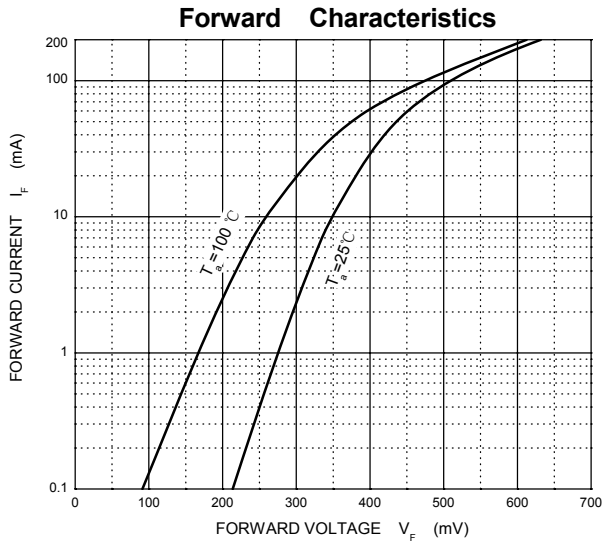
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Forward Continuous Current	$I_{FM}$	200	mA
Repetitive Peak Forward Current @t<1.0s	$I_{FRM}$	500	mA
Peak Forward Surge Current @t<10ms	$I_{FSM}$	4.0	A
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	$T_J$	125	°C
Storage Temperature	$T_{STG}$	-55~+150	°C

### Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	30			V	$I_R=10\mu A$
Forward voltage	BothTypes	$V_F$		1.0	V	$I_F=200mA$
	BAT42WS	$V_F$		0.4	V	$I_F=10mA$
	BAT42WS	$V_F$		0.65	V	$I_F=50mA$
	BAT43WS	$V_F$	0.26	0.33	V	$I_F=2mA$
	BAT43WS	$V_F$		0.45	V	$I_F=15mA$
Reverse current	$I_R$			0.5	$\mu A$	$V_R=25V$
Capacitance between terminals	$C_T$			10	pF	$V_R=1.0V, f=1.0MHz$
Reverse recovery time	$t_{rr}$			5	ns	$I_F=I_R=10mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$

# Typical Characteristics

# BAT43WS



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