



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

## SOD-323 Plastic-Encapsulate Diodes

**BAS40WS** SCHOTTKY DIODES

SOD-323

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### FEATURES

- LOW Turn-on Voltage
- Fast Switching
- PN Junction Guard for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material –UL Recognition Flammability Classification 94V-O

MARKING: 43

### Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V <sub>RRM</sub>	40	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
Forward Continuous Current	I <sub>F</sub>	200	mA
Peak forward surge current @<1.0s	I <sub>FSM</sub>	600	mA
Power Dissipation	P <sub>d</sub>	200	mW
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	625	K/W
Storage temperature	T <sub>STG</sub>	-55 to +150	°C

### Electrical Ratings @T<sub>A</sub>=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40			V	I <sub>R</sub> =10μA
Forward voltage	V <sub>F1</sub>			0.38	V	I <sub>F</sub> =1mA
	V <sub>F2</sub>			0.5	V	I <sub>F</sub> =10mA
	V <sub>F3</sub>			1	V	I <sub>F</sub> =40mA
Reverse current	I <sub>R</sub>		20	200	nA	V <sub>R</sub> =30V
Capacitance between terminals	C <sub>T</sub>		4	5	pF	V <sub>R</sub> =0V, f=1MHz
Reverse Recovery Time	t <sub>rr</sub>			5	ns	I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>rr</sub> =0.1X I <sub>R</sub> , R <sub>L</sub> =100Ω



# Typical Characteristics

# BAS40WS

