

SCHOTTKY BARRIER DIODE

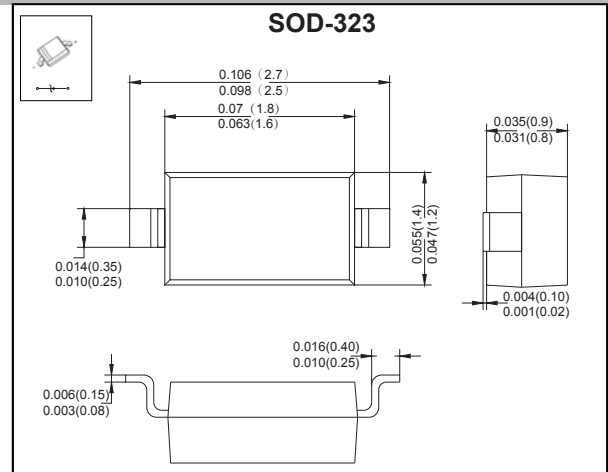
VOLTAGE RANGE: 20V-40V PEAK PULSE POWER:250mW

FEATURES

- High Current Capability
- Low Forward Voltage Drop

MECHANICAL DATA

- Case: SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-repetitive peak reverse voltage	V_{RM}	20	30	40	V
Peak repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Working peak reverse voltage	V_{RWM}				
DC blocking voltage	V_R				
RMS reverse voltage	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	I_O	1			A
Forward current	I_{FSM}	9			A
Repetitive peak forward current	I_{FRM}	1.5			A
Power dissipation	P_d	250			mW
Thermal resistance junction to ambient	$R_{\theta JA}$	400			$^{\circ}C/W$
Junction temperature	T_J	125			$^{\circ}C$
Storage temperature	T_{STG}	-55~+150			$^{\circ}C$

Electrical Specification ($T_A=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$ B5817WS B5818WS B5819WS	20 30 40		V
Reverse voltage leakage current	I_R	$V_R=20V$ B5817WS $V_R=30V$ B5818WS $V_R=40V$ B5819WS		1	mA
Forward voltage	V_F	B5817WS $I_F=1A$		0.45	V
		B5817WS $I_F=3A$		0.75	V
		B5818WS $I_F=1A$		0.55	V
		B5818WS $I_F=3A$		0.875	V
		B5819WS $I_F=1A$		0.6	V
		B5819WS $I_F=3A$		0.9	V
Diode capacitance	C_D	$V_R=4V, f=1MHz$		120	pF

MARKING:

B5817WS	B5818WS	B5819WS
SJ	SK	SL

RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics

