SOD-123 SCHOTTKY BARRIER DIODE

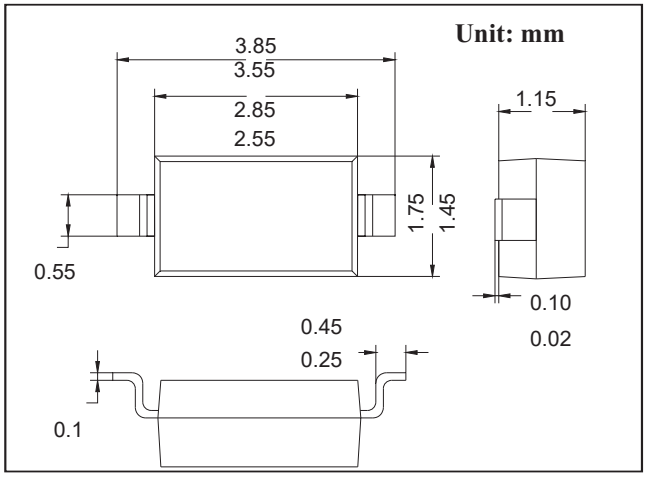
VOLTAGE RANGE: 20V-40V PEAK PULSE POWER:500mW

FEATURES

- ●High Current Capability
- ●Low Forward Voltage Drop

MECHANICAL DATA

- ●Case: SOD-123 Small Outline Plastic Package
- ●Polarity: Color band denotes cathode end
- ●Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	20	30	40	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified Output Current	I_O	1			A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	9			A
Repetitive Peak Forward Current	I_{FRM}	1.5			A
Power Dissipation	P_D	500			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200			℃/W
Junction temperature	T_J	125			℃
Storage Temperature	T_{STG}	-55~+150			℃

Electrical Specification (T_A=25°C unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R= 1mA	B5817W B5818W B5819W	20 30 40		V
Reverse voltage leakage current	I_R	V_R=20V V_R=30V V_R=40V	B5817W B5818W B5819W		1	mA
Forward voltage	V_F	B5817W	I_F=1A I_F=3A		0.45 0.75	V
		B5818W	I_F=1A I_F=3A		0.55 0.875	V
		B5819W	I_F=1A I_F=3A		0.6 0.9	V
Diode capacitance	C_D	V_R=4V, f=1MHz			120	pF

	B5817W	B5818W	B5819W
MARKING:	SJ	SK	SL

RATINGS AND CHARACTERISTIC CURVES