

BAT46W

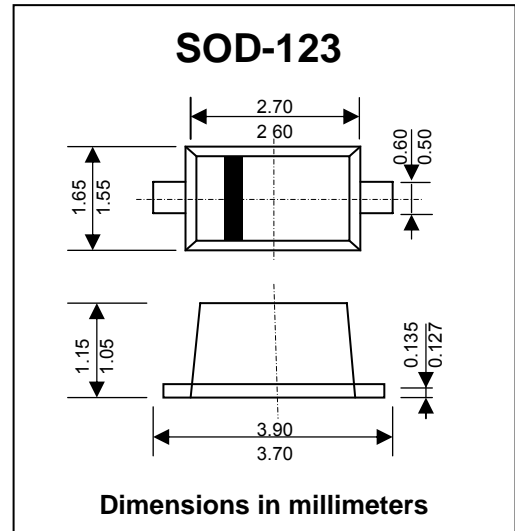
SCHOTTKY BARRIER DIODE

FEATURES :

- * High breakdown voltage
- * Low forward voltage
- * Surface mount device
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SOD-123
- * Weight : 0.01 gram (approximately)



Maximum Ratings and Thermal Characteristics (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	I _F	150	mA
Repetitive Peak Forward Current at tp < 1s,	I _{FRM}	350	mA
Forward Surge Current at tp < 10 ms,	I _{FSM}	750	mA
Power Dissipation	P _{tot}	200	mW
Thermal Resistance Junction to Ambient Air	R _{0JA}	420	°C/W
Operating Junction Temperature	T _J	-55 to + 125	°C
Storage temperature range	T _{STG}	-55 to + 150	°C

Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 100 μA	100	-	-	V
Forward Voltage	V _F	I _F = 0.1 mA	-	-	0.25	V
		I _F = 10 mA	-	-	0.45	
		I _F = 250 mA	-	-	1.00	
Reverse Current	I _R	V _R = 1.5 V			0.5	μA
		V _R = 10 V			0.8	
		V _R = 50 V			2.0	
		V _R = 75 V	-	-	5.0	
		V _R = 1.5 V, T _J = 60 °C			5.0	
		V _R = 10 V, T _J = 60 °C			7.5	
		V _R = 50 V, T _J = 60 °C	-	-	15	
		V _R = 75 V, T _J = 60 °C	-	-	20	
Diode Capacitance	C _T	V _R = 0 V, f = 1MHz	-	20	-	pF
		V _R = 1 V, f = 1MHz	-	12	-	