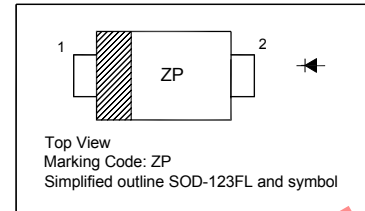


SDB39W

Surface Mount Schottky Barrier Rectifiers

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

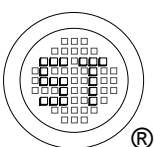


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

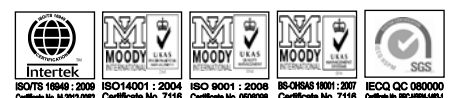
Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage	V_R	40	V
Average Forward Rectified Current	$I_{F(AV)}$	1.57	A
Non-Repetitive Peak Forward Surge Current (10 ms)	I_{FSM}	30	A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage at $I_R = 100 \mu\text{A}$	V_R	40	-	-	V
Forward Voltage at $I_F = 0.5 \text{ A}$ at $I_F = 1.1 \text{ A}$ at $I_F = 1.5 \text{ A}$	V_F	-	-	0.48 0.54 0.57	V
Reverse Current at $V_R = 40 \text{ V}$	I_R	-	-	100	μA
Total Capacitance at $V_R = 10 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	50	-	pF
Reverse Recovery Time at $I_F = I_R = 100 \text{ mA}$, $I_{rr} = 10 \text{ mA}$, $R_L = 100 \Omega$	t_{rr}	-	30	-	ns



SEMTECH ELECTRONICS LTD.
Subsidiary of Sino-Tech International (BVI) Limited



SDB39W

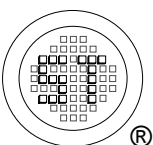
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H _E
	1.08	0.1	0.2	2.9	1.9	1.1	0.9	3.9
mm	0.88	0	0.1	2.6	1.7	0.8	0.7	3.5



SEMTECH ELECTRONICS LTD.
 Subsidiary of Sino-Tech International (BVI) Limited



Dated: 24/07/2013 Rev: 01