

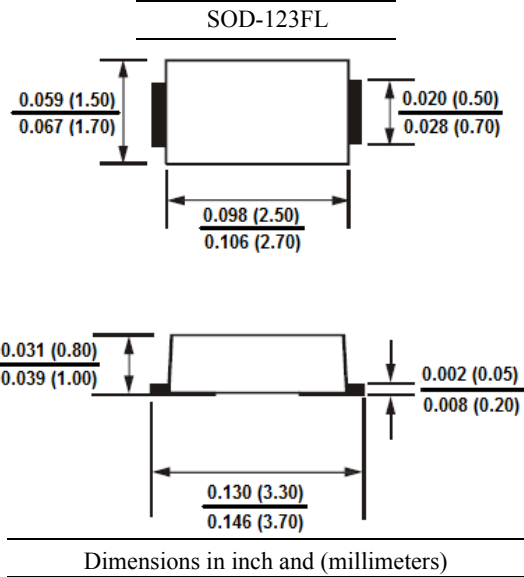


BAT42W / BAT43W

SCHOTTKY DIODES

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. BAT42WH



Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	400	mW
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum DC Blocking Voltage	V_R	30	V
Average Forward Current	$I_{F(AV)}$	200	mA
Peak Forward Surge Current	I_{FSM}	4	A
Operating Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +125	$^\circ\text{C}$

Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Breakdown Voltage	B_V	30	--	V	$I_R = 100\mu\text{A}$
Reverse Leakage Current	I_R	--	500	nA	$V_R = 25\text{V}$
Forward Voltage	V_F	--	0.40	V	$I_F = 10\text{mA}$
		--	0.65		$I_F = 50\text{mA}$
		0.26	0.33		$I_F = 2\text{mA}$
		--	0.45		$I_F = 15\text{mA}$
		--	1.00		$I_F = 200\text{mA}$
Reverse Recovery Time	T_{RR}	5 (Typical)		nS	$I_F = I_R = 10\text{mA}$, $R_L = 100\Omega$ $I_{RR} = 1.0\text{mA}$
Capacitance	C	7 (Typical)		pF	$V_R = 1.0\text{V}$, $f = 1.0\text{MHz}$



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Typical Characteristics

