



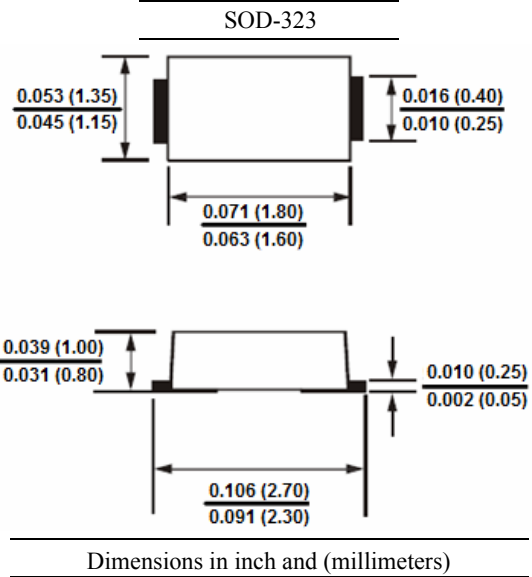
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BAT54WS

SCHOTTKY DIODES

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. BAT54WSH



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

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	200	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	Conditions
Breakdown Voltage	B_V	30	--	V	$I_R = 10\mu\text{A}$
Reverse Leakage Current	I_R	--	2	μA	$V_R = 25\text{V}$
Forward Voltage	V_F	--	0.24	V	$I_F = 0.1\text{mA}$
			0.32		$I_F = 1.0\text{mA}$
			0.40		$I_F = 10\text{mA}$
			0.50		$I_F = 30\text{mA}$
			0.80		$I_F = 100\text{mA}$
Reverse Recovery Time	T_{RR}	--	5	nS	$I_F = I_R = 10\text{mA}$, $R_L = 100\Omega$ $I_{RR} = 1.0\text{mA}$
Capacitance	C	--	10	pF	$V_R = 1.0\text{V}$, $f = 1.0\text{MHz}$



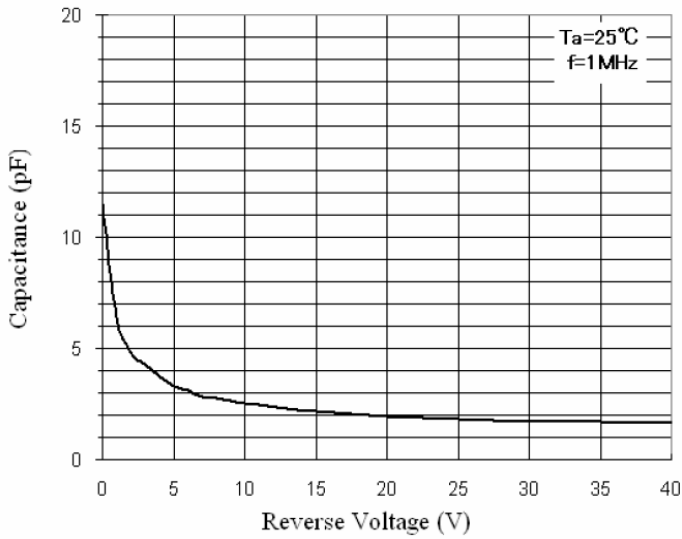
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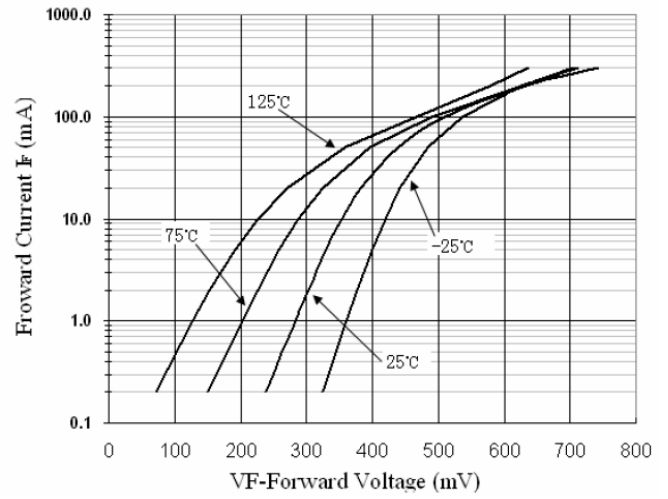
SCHOTTKY DIODES

Typical Characteristics

Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

