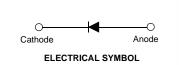
BAT54XV2 Schottky Barrier Diodes

Features

- Low Forward Voltage Drop
- Flat Lead, Surface Mount Device at 0.60mm Height
- Extremely Small Outline Plastic Package SOD523F
- Moisture Level Sensitivity 1
- Pb-free Version and RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Green Mold Compound





January 2010

BAT54XV2 — Schottky Barrier Diodes

SOD-523F Band Indicates Cathode BAT54XV2 Marking : 5B

Absolute Maximum Ratings * T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units V	
V _{RRM}	Maximum Repetitive Reverse Voltage	30		
V _R	Maximum DC Blocking Voltage	30	V	
I _{F(AV)}	Average Rectified Forward Current	200	mA	
I _{FSM}	Peak Forward Surge Current	4	A	
Τ _J	Operating Junction Temperature	+125	°C	
T _{STG}	Storage Temperature Range	-65 to +125	°C	

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics TA=25°C unless otherwise noted

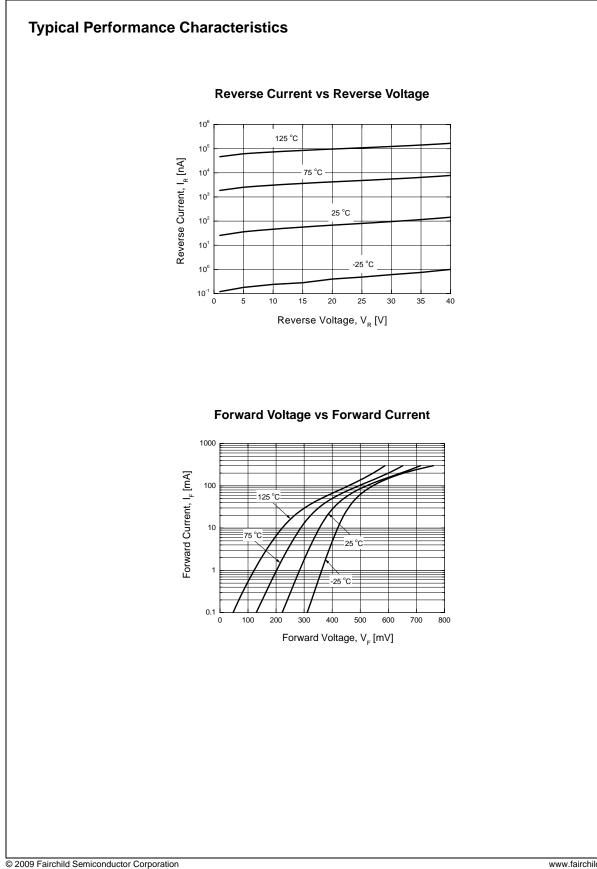
Symbol	Parameter	Value	Units
PD	Power Dissipation	200	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	500	°C/W
	ad on EP 4 PCP minimum land nad		

* Device mounted on FR-4 PCB minimum land pad.

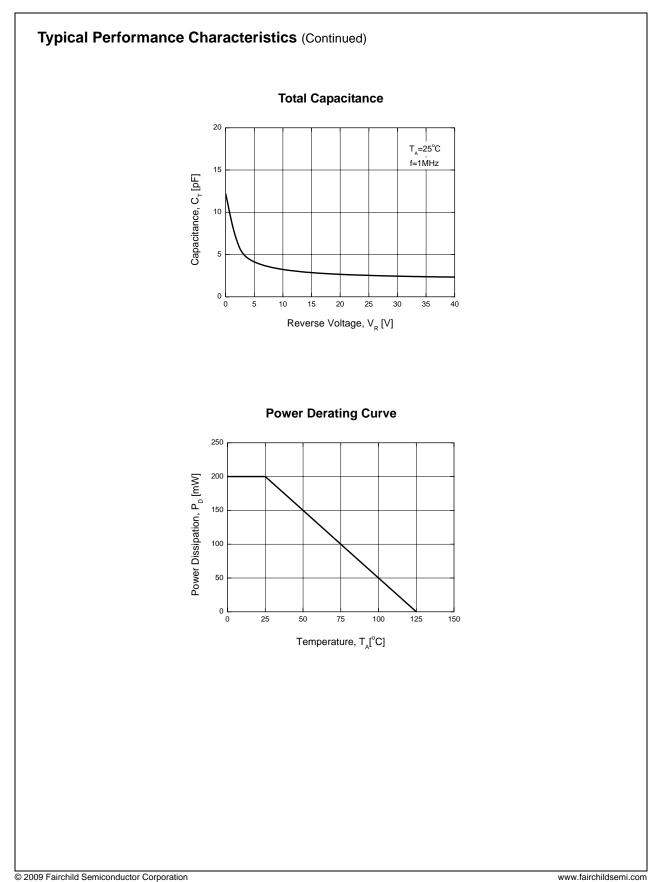
Electrical Characteristics $T_A=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _R	Breakdown Voltage	I _R =10μΑ	30			V
I _R	Reverse Leakage Current	V _R =25V			2	μA
V _F	Forward Voltage	$I_{F}=0.1mA$ $I_{F}=1mA$ $I_{F}=10mA$ $I_{F}=30mA$ $I_{F}=100mA$			0.24 0.32 0.40 0.50 0.80	v
T _{RR}	Reverse Recovery Time	$I_{F}=I_{R}=10mA$ $R_{L}=100\Omega$ $I_{RR}=1mA$			5	nS
С	Capacitance	V _R =1V, f=1MHz			10	pF

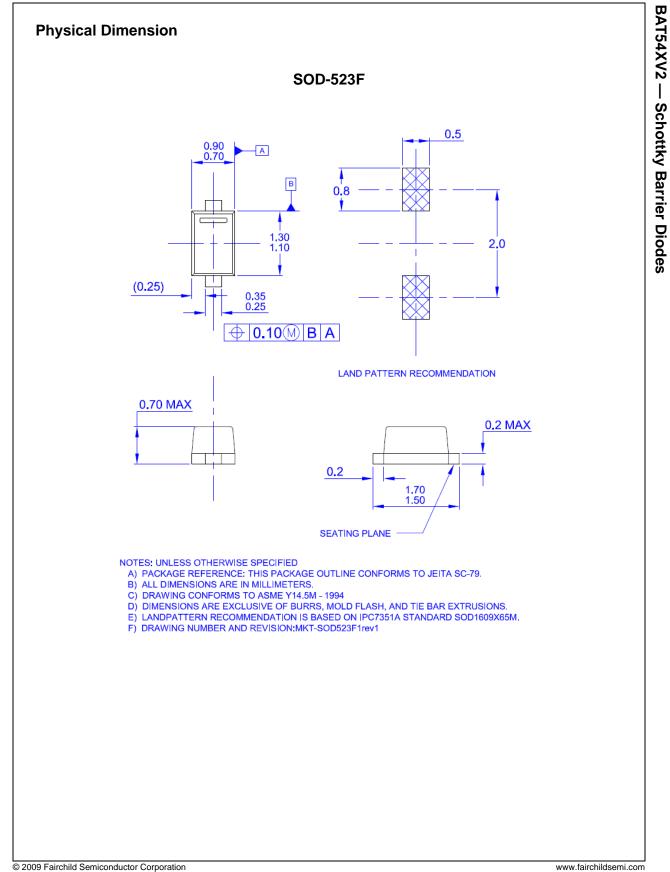
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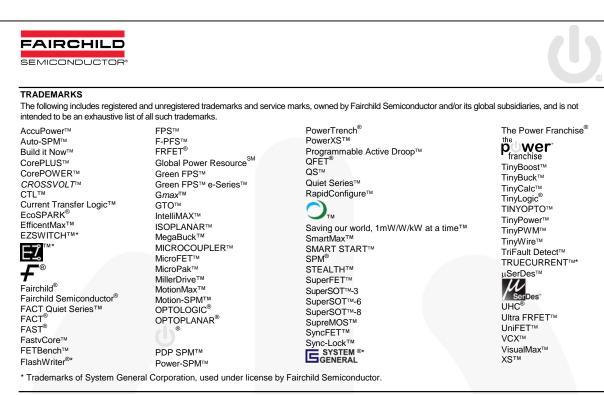
BAT54XV2 — Schottky Barrier Diodes



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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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