

- Moisture Level Sensitivity 1
- Pb-free Version and RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Green Mold Compound



BAT42XV2 Marking : 6B BAT43XV2 Marking : 7B

SOD-523F

January 2010

Band Indicates Cathode

Absolute Maximum Ratings * $T_A=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V
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
ТJ	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

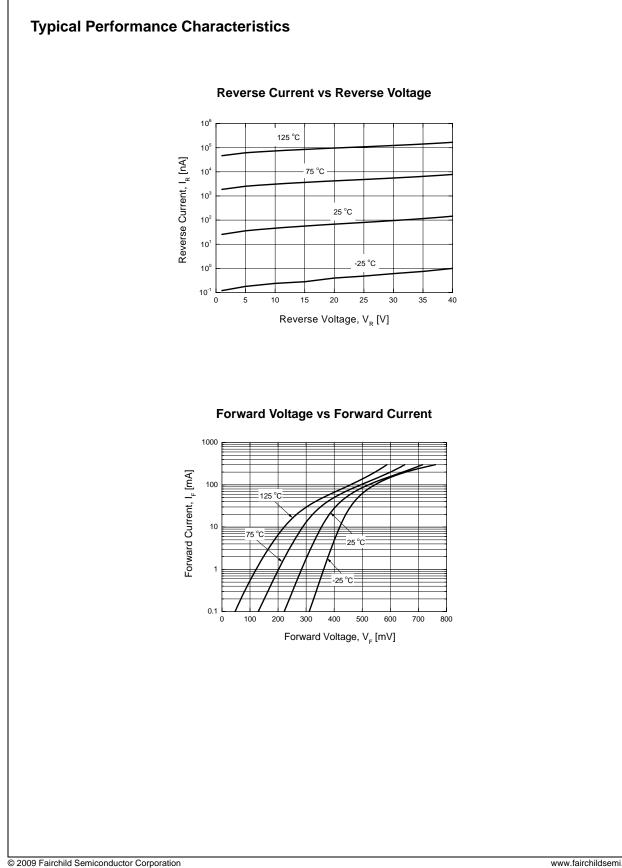
Symbol	Parameter	Value	Units
PD	Power Dissipation	200	mW
$R_{ ext{ heta}JA}$	Thermal Resistance, Junction to Ambient	500	°C/W

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

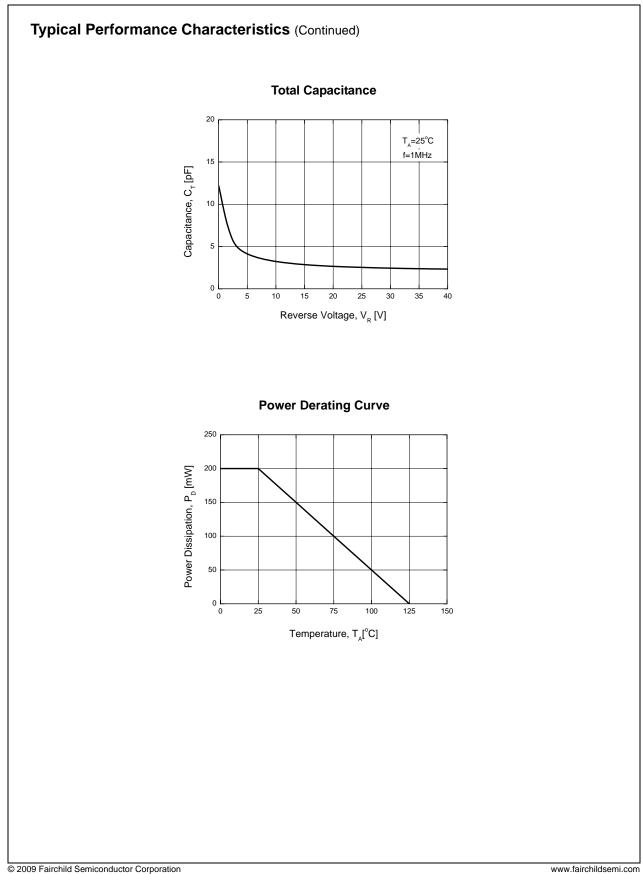
Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _R	Breakdown Voltage	I _R =100μA	30			V
I _R	Reverse Leakage Current	V _R =25V			500	nA
V _F	Forward Voltage BAT42XV2	I _F =10mA			0.40	
	BAT43XV2	I _F =50mA			0.65	
	BAT43XV2	I _F =2mA	0.26		0.33	V
		I _F =15mA			0.45	
	BAT42XV2, BAT43XV2	I _F =200mA			1.0	
T _{RR}	Reverse Recovery Time	I _F =I _R =10mA		5		nS
		$R_L=100\Omega$				
		I _{RR} =1mA				
С	Capacitance	V _R =1V, f=1MHz		7		pF

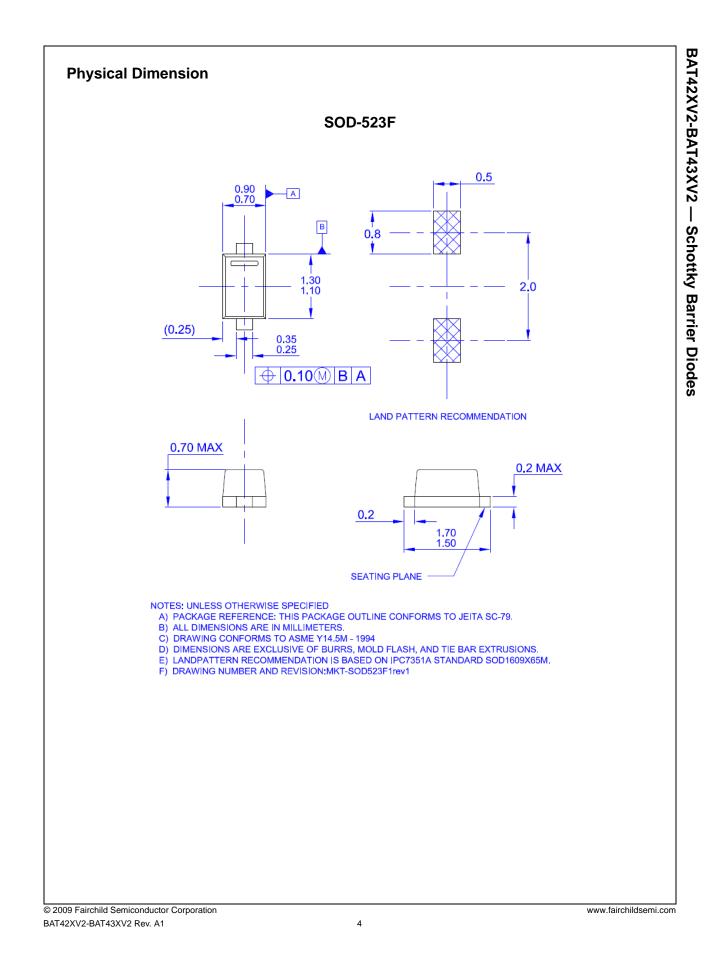
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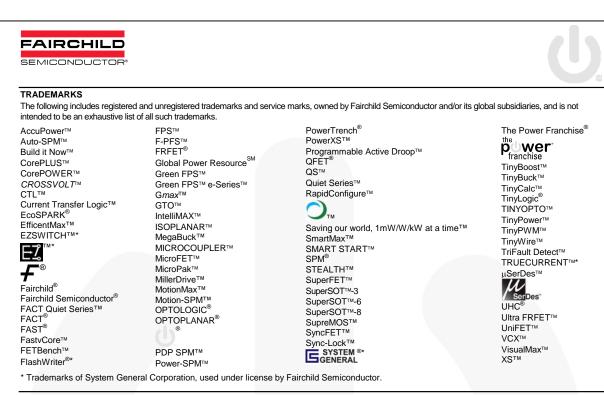


BAT42XV2-BAT43XV2 Rev. A1



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