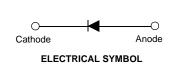


BAT42XV2-BAT43XV2 Schottky Barrier Diodes

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



BAT42XV2 Marking : 6B

BAT43XV2 Marking : 7B



SOD-523F 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	А
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 T_A=25°C unless otherwise noted

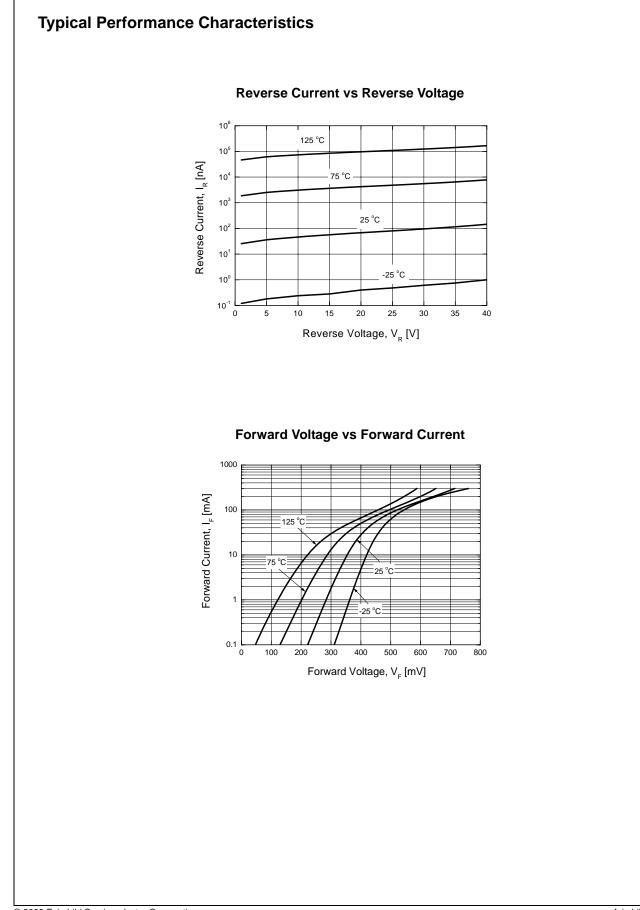
Symbol	Parameter	Value	Units	
PD	Power Dissipation	200	mW	
$R_{ hetaJA}$	Thermal Resistance, Junction to Ambient	500	°C/W	

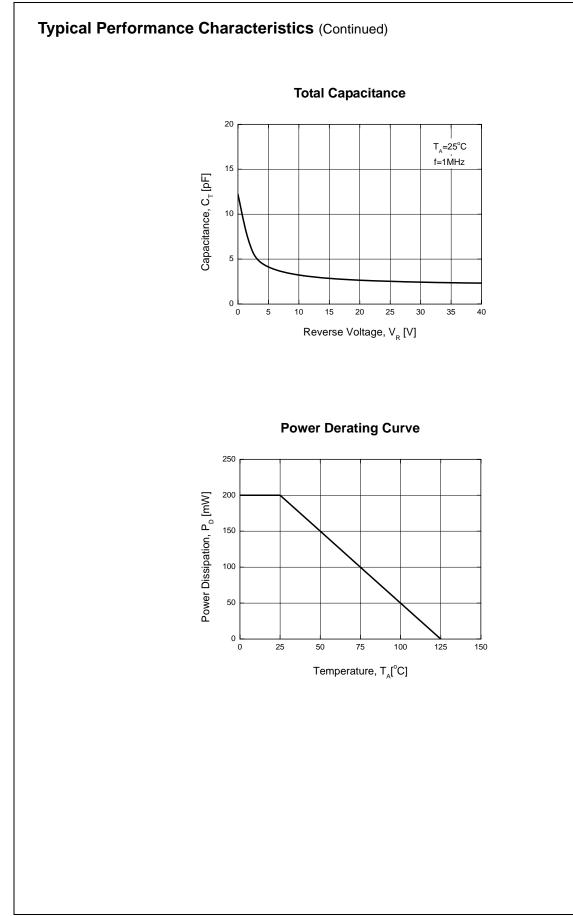
* Device mounted on FR-4 PCB minimum land pad.

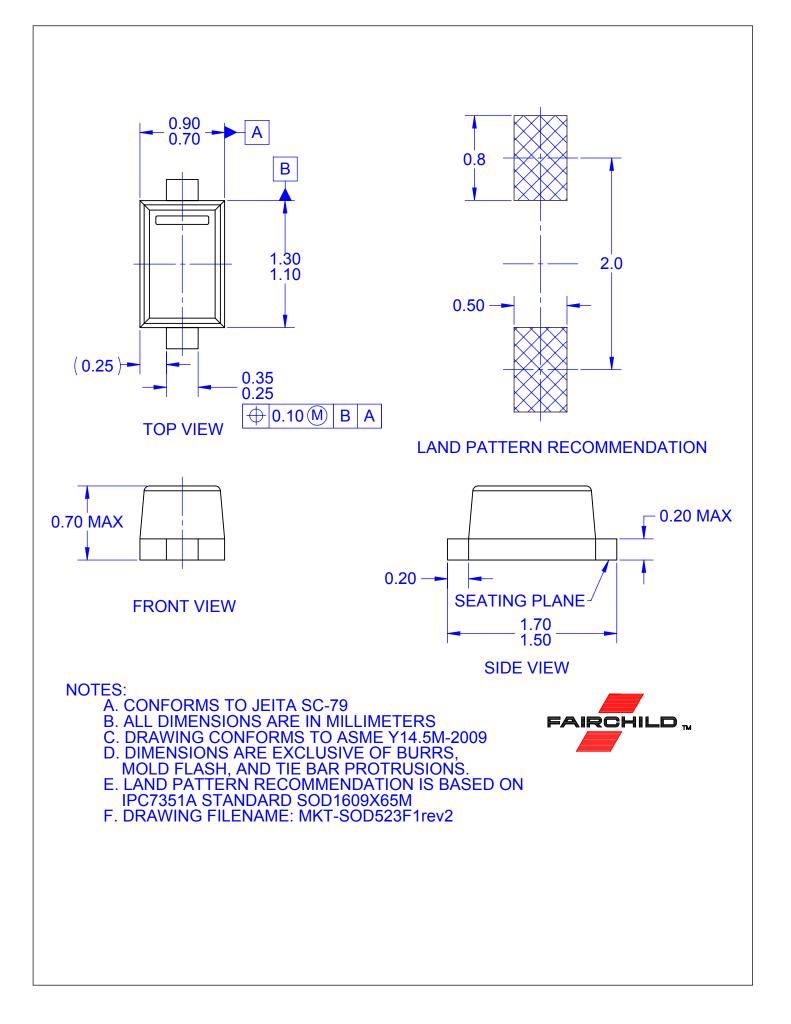
Electrical Characteristics T_A=25°C unless otherwise noted

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 I _F =50mA			0.40 0.65	
	BAT43XV2	I _F =2mA I _F =15mA	0.26		0.33 0.45	V
T _{RR}	BAT42XV2, BAT43XV2 Reverse Recovery Time	$I_{F}=200\text{mA}$ $I_{F}=I_{R}=10\text{mA}$ $R_{L}=100\Omega$ $I_{RR}=1\text{mA}$		5	1.0	nS
С	Capacitance	V _R =1V, f=1MHz		7		pF

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