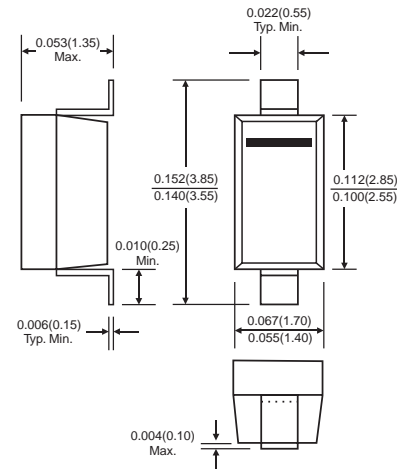




### SOD-123



Dimensions in inches and (millimeters)

## Features

- ◇ Low Forward Voltage Drop
- ◇ Fast Switching Time
- ◇ Surface Mount Package Ideally Suited for Automatic Insertion

MARKING: BAT42W S7

BAT43W S8

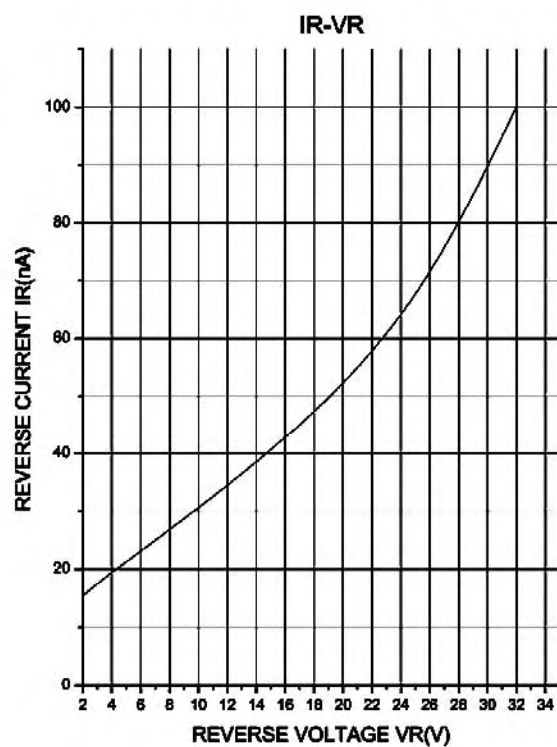
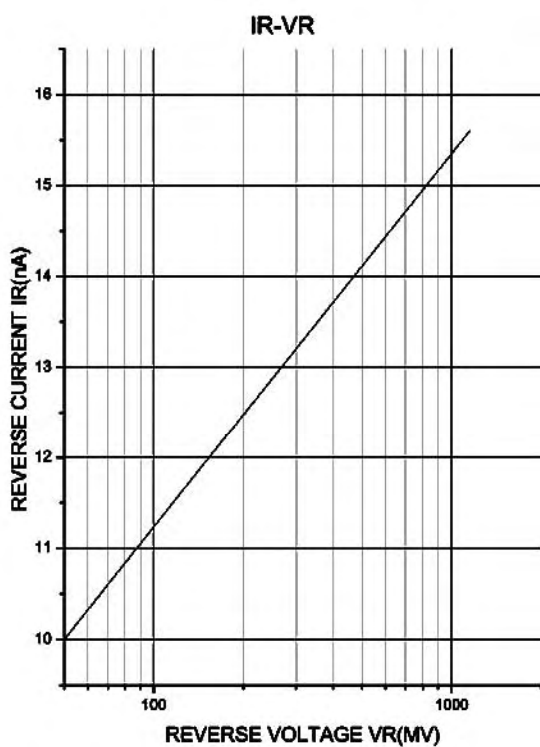
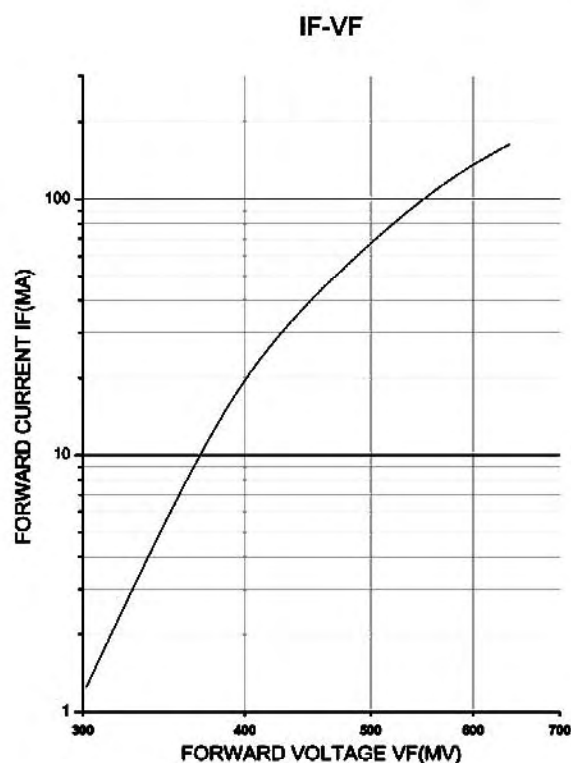
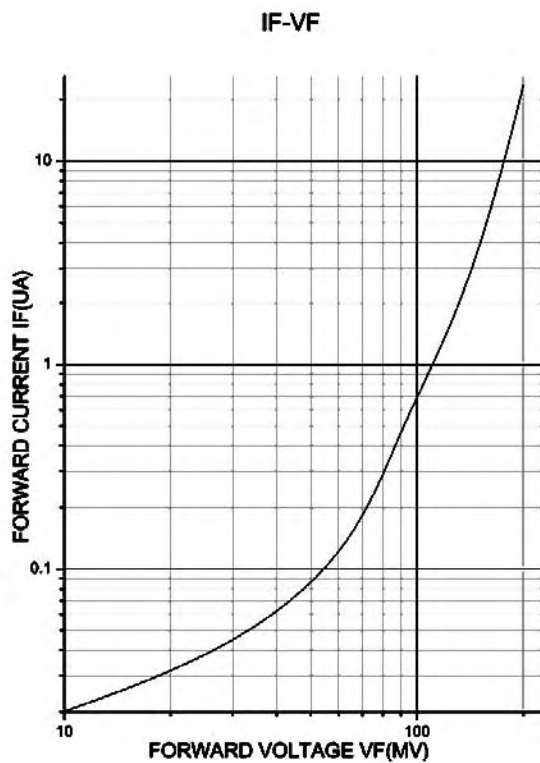
### Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25°C

Parameter	Symbol	BAT42W/BAT43W	Unit
Peak Repetitive Peak reverse voltage	V <sub>RRM</sub>	30	V
Working Peak	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	21	V
Forward Continuous Current	I <sub>FM</sub>	200	mA
Repetitive Peak Forward Current @t<1.0s	I <sub>FRM</sub>	500	mA
Peak forward surge current @<10ms	I <sub>FSM</sub>	4.0	A
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	500	°C/W
Storage temperature	T <sub>STG</sub>	-55~+125	°C

### Electrical Ratings @T<sub>A</sub>=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	30			V	I <sub>R</sub> =10μA
Forward voltage	V <sub>F</sub>			1.0	V	I <sub>F</sub> =200mA
				0.4	V	I <sub>F</sub> =10mA
				0.65	V	I <sub>F</sub> =50mA
				0.26	V	I <sub>F</sub> =2mA
				0.45	V	I <sub>F</sub> =15mA
Reverse current	I <sub>R</sub>			0.5	μA	V <sub>R</sub> =25V
Capacitance between terminals	C <sub>T</sub>			10	pF	V <sub>R</sub> =1.0V, f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>			5	ns	I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>rr</sub> =0.1X I <sub>R</sub> , R <sub>L</sub> =100Ω

## Typital Characteristics



## Typital Characteristics

