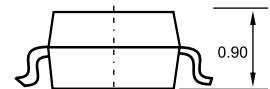
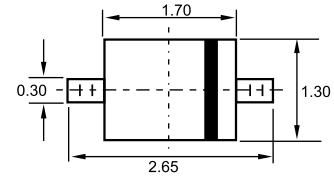




SOD-323



Dimensions in inches and (millimeters)

Features

- ✧ Low Forward Voltage Drop
- ✧ Fast Switching Time
- ✧ Surface Mount Package Ideally Suited for Automatic Insertion
- ✧ Also Available in Lead Free Version

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

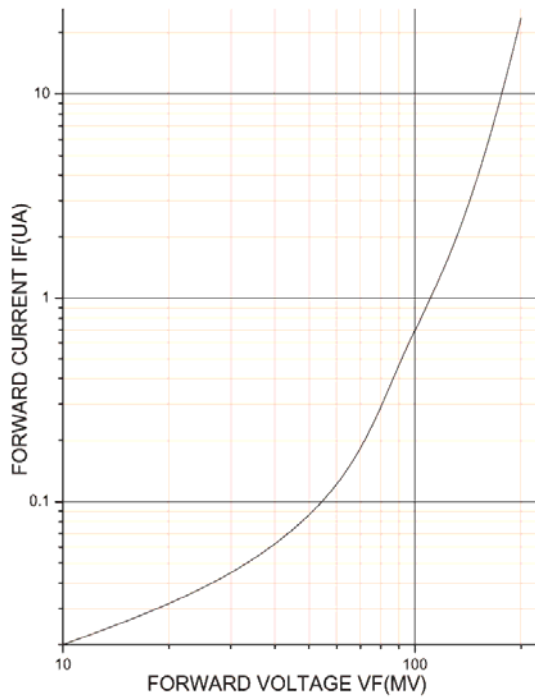
Parameter	Symbol	BAT42WS/BAT43WS	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}	30	V
Working Peak	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Forward Continuous Current	I_{FM}	200	mA
Repetitive Peak Forward Current @ $t < 1.0s$	I_{FRM}	500	mA
Peak forward surge current @ $< 10ms$	I_{FSM}	4.0	A
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Storage temperature	T_{STG}	-55~+125	°C

Electrical Ratings

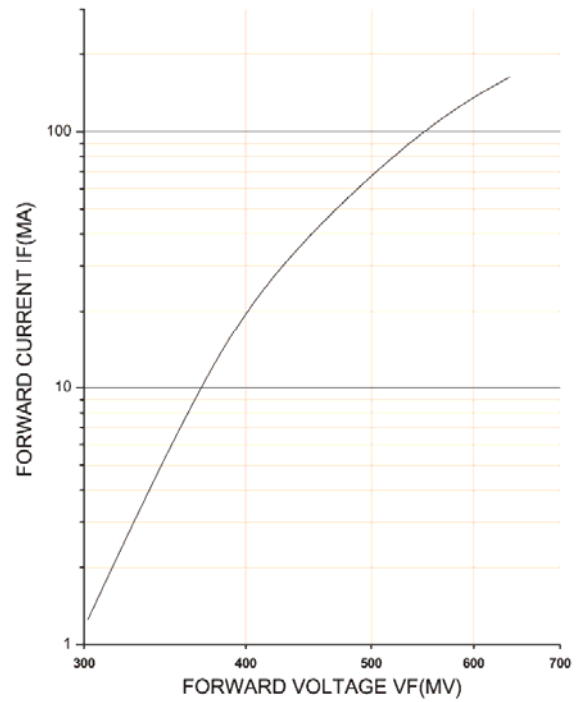
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	30			V	$I_R = 10\mu A$
Forward voltage	All Types			1.0	V	$I_F = 200mA$
	BAT42WS			0.4	V	$I_F = 10mA$
	BAT42WS			0.65	V	$I_F = 50mA$
	BAT43WS	0.26		0.33	V	$I_F = 2mA$
	BAT43WS			0.45	V	$I_F = 15mA$
Reverse current	I_R			0.5	μA	$V_R = 25V$
Capacitance between terminals	C_T			10	pF	$V_R = 1.0V, f = 1.0MHz$
Reverse Recovery Time	t_{rr}			5	ns	$I_F = I_R = 10mA$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

Typital Characteristics

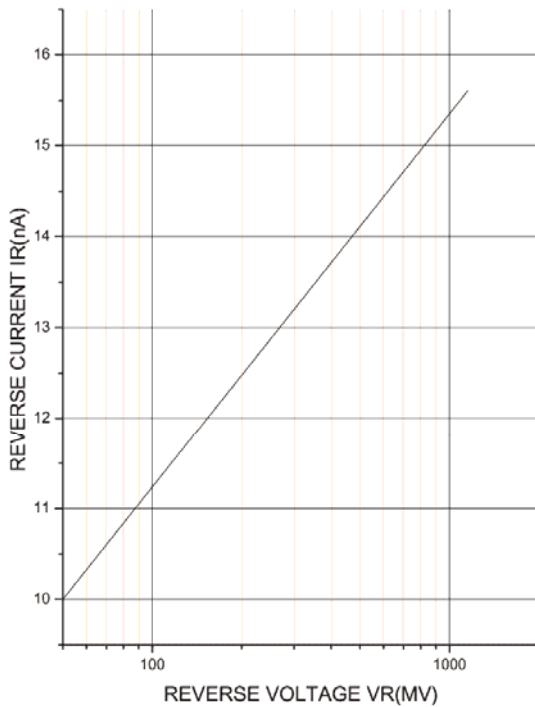
IF-VF



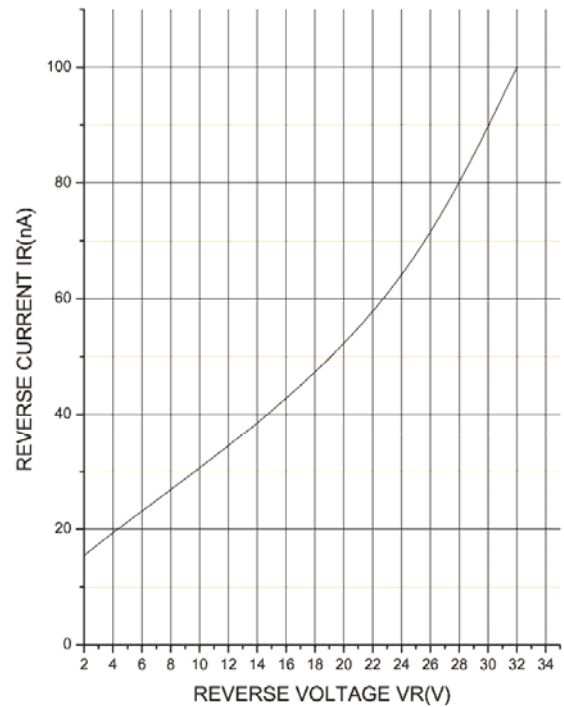
IF-VF



IR-VR

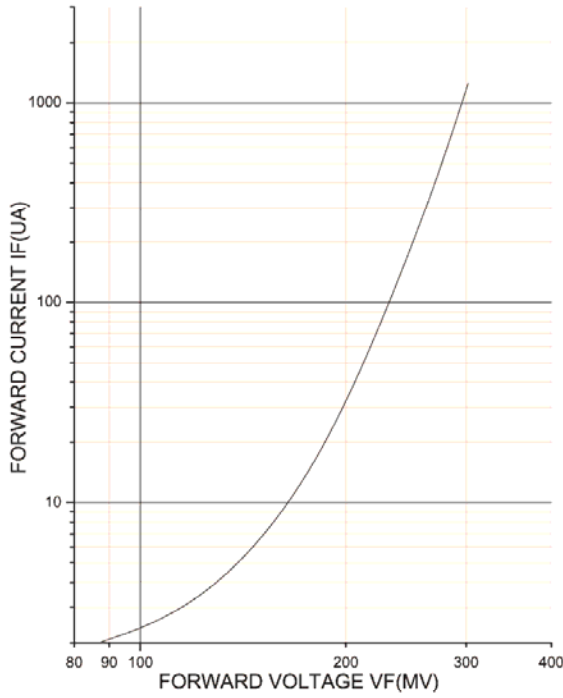


IR-VR

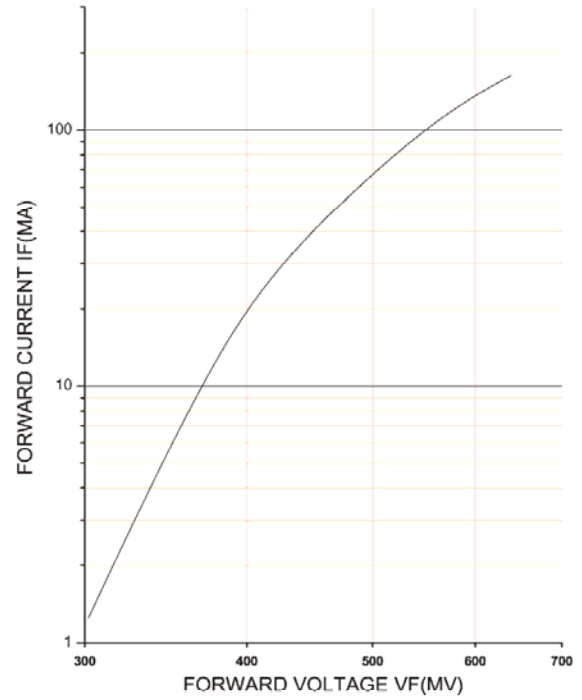


Typital Characteristics

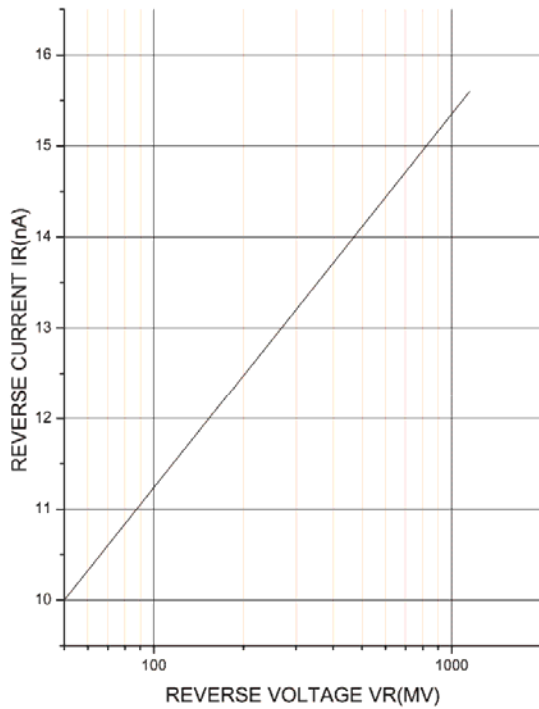
IF-VF



IF-VF



IR-VR



IR-VR

