

**BAT42WS/BAT43WS SCHOTTKY DIODES****FEATURES**

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

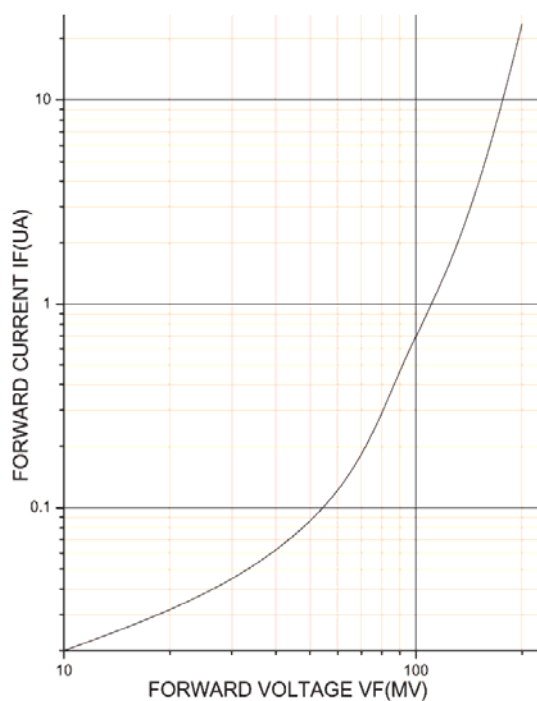
SOD-323**Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C**

Parameter Symbol		BAT42WS/BAT43WS Un	it
Peak Repetitive Peak reverse voltage Working Peak DC Blocking Voltage	V_{RRM} V_{RWM} V_R	30	V
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

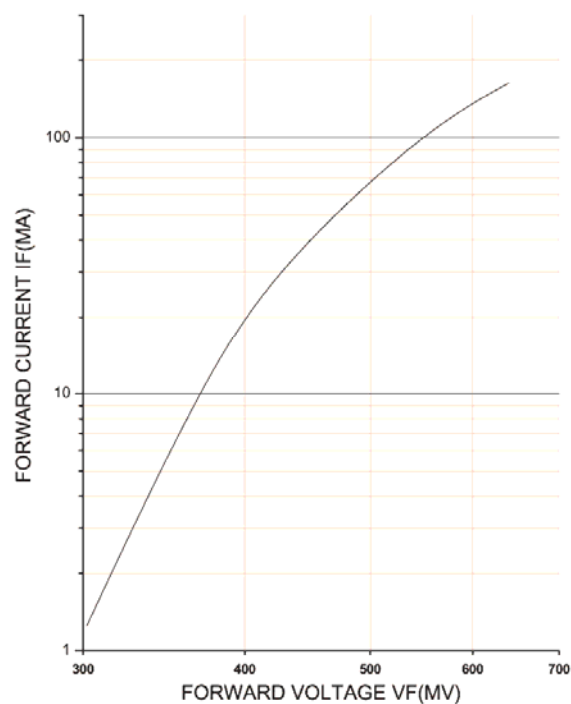
Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	30			V	$I_R=10\mu A$
Forward voltage	V_F			1.0	V	$I_F=200mA$
	V_F			0.4	V	$I_F=10mA$
	V_F			0.65	V	$I_F=50mA$
	V_F	0.26		0.33	V	$I_F=2mA$
	V_F			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	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

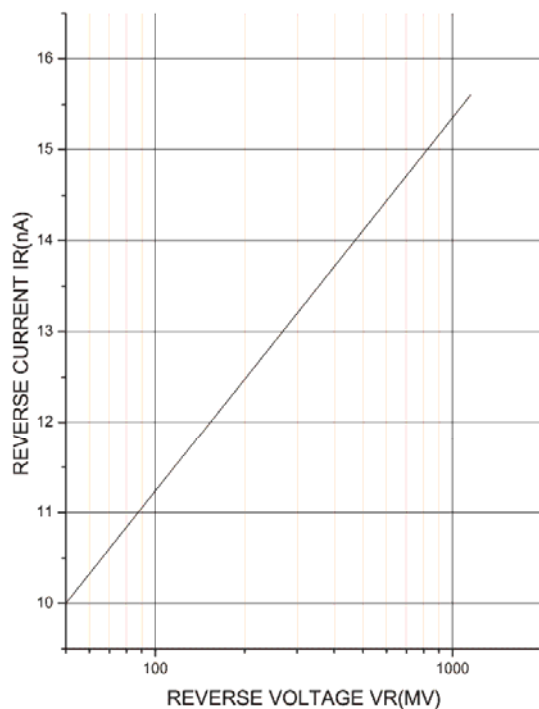
IF-VF



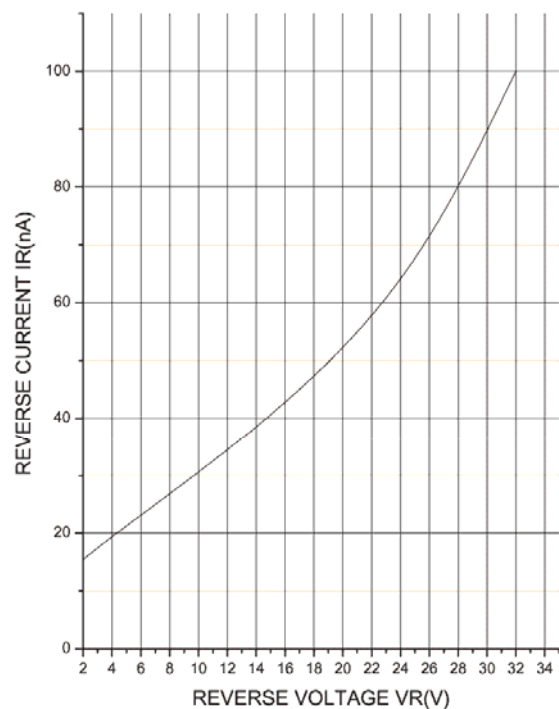
IF-VF



IR-VR



IR-VR

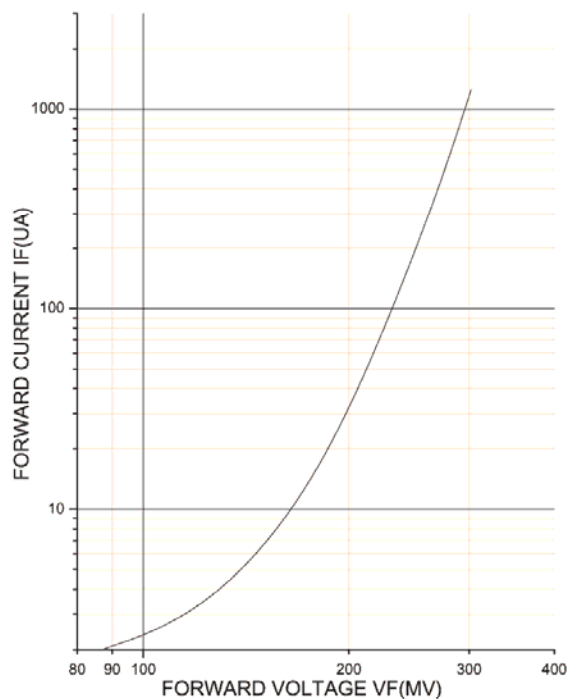


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Typital Characteristics

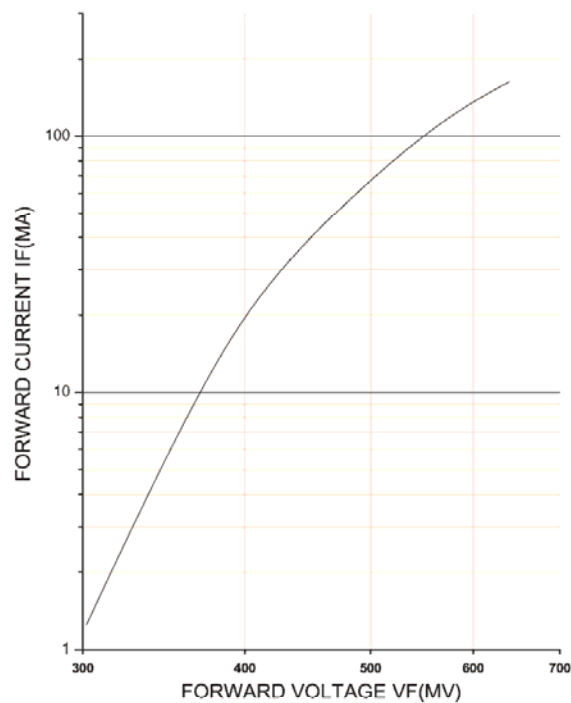
1N4148WS/BAV16WS

BAT43WS

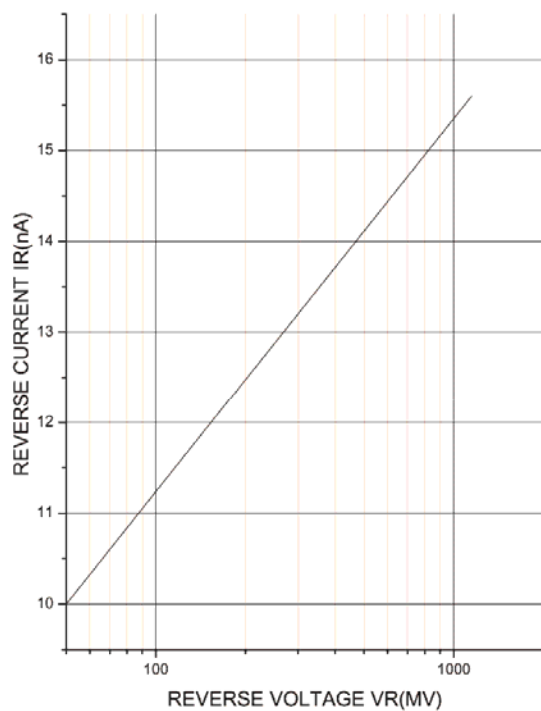
IF-VF



IF-VF



IR-VR



IR-VR

