SOD-523 SCHOTTKY BARRIER DIODE

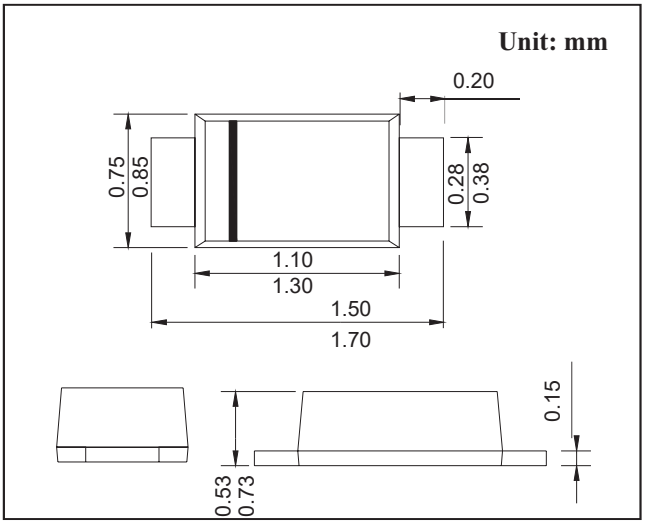
VOLTAGE RANGE: 30V PEAK PULSE POWER:200mW

FEATURES

- ●Low Forward Voltage Drop
- ●Guard Ring Construction for Transient
- ●Protection Negligible Reverse Recovery Time
- ●Very Low Reverse Capacitance

MECHANICAL DATA

- ●Case: SOD-523 Small Outline Plastic Package
- ●Polarity: Color band denotes cathode end
- ●Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Item	Symbol	Unit	Conditions	Limit
Power Dissipation	PD	mW		200
Storage Temperature	TSTG	℃		-65 to +125
Junction Temperature	TJ	℃		125
Repetitive Peak Reverse Voltage	VRRM	V		30
Maximum DC Blocking Voltage	VR	V		30
Average Forward Rectified Current	IF(AV)	mA		200
Peak Forward Surge Current	IFSM	A		4

Electrical Specification (TA=25°C unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	VR	V	IR= 100uA	30	
Reverse Leakage Current	IR	uA	VR=25V		0.5
Forward Voltage	VF	V	IF=2mA	0.26	0.33
			IF=15mA		0.45
			IF=200mA		1.00
Reverse Recovery Time	TRR	ns	IF=IR=10mA,RL=100 Ω,IRR=1mA	5(Typical))	
Capacitance	C	pF	VR=1V, f=1MHZ	7(Typical))	

Device	Package	Shipping
BAT43XV2	SOD-523	3000/Tape&Reel

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Total Capacitance

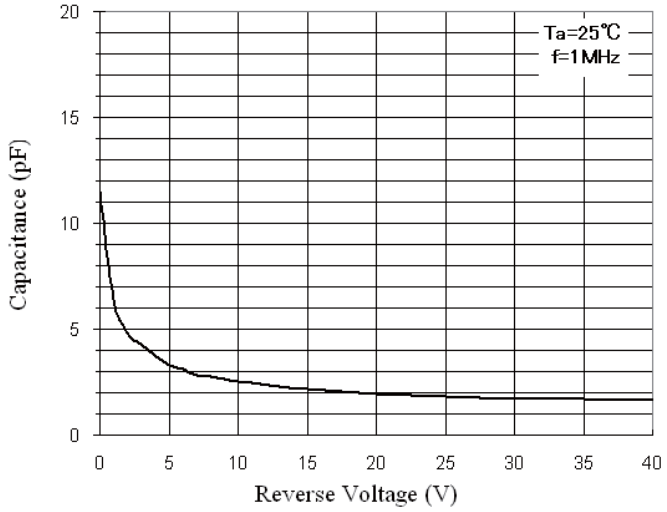


Fig.2 Forward Voltage vs Ambient Temperature

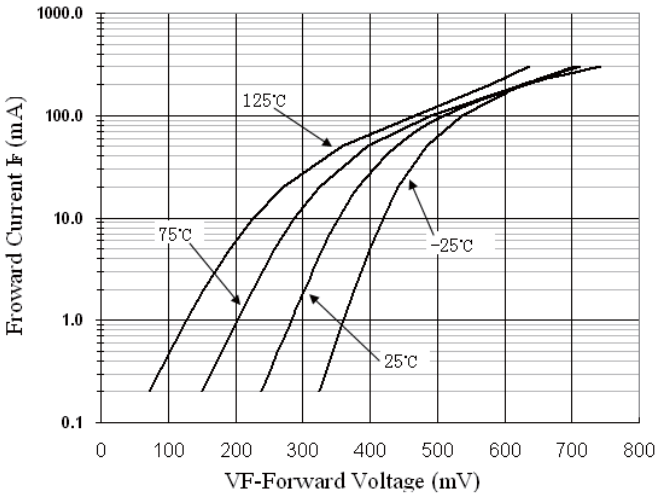
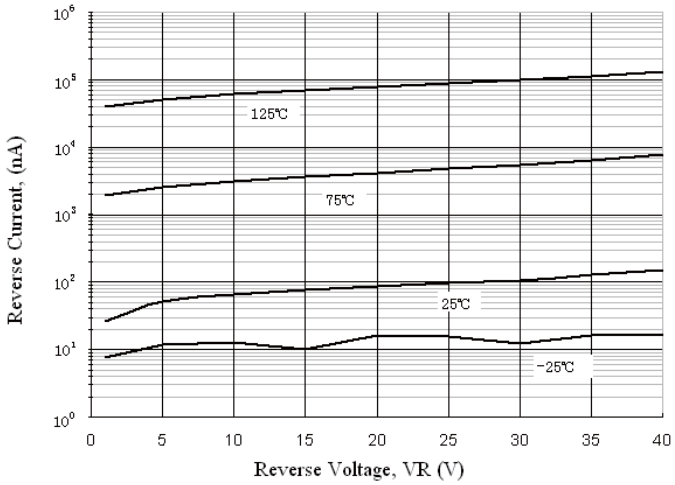



Fig.3 Reverse Current vs Reverse Voltage