

## BAS40X

# **Schottky Barrier Diode**





### **Features**

- V<sub>R</sub> 40V
- IF 200mA

### **Typical Applications**

•Low Forward Voltage Drop

#### **Mechanical Data**

- Package: SOD523
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end
- •Marking: 43

**■Limiting Values** (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P <sub>D</sub>	mW		150
Storage Temperature	T <sub>STG</sub>	°C		-55 to +150
Junction Temperature	ΤJ	°C		125
DC Reverse Voltage	V <sub>R</sub>	V		40
Average Rectified Forward Current	I <sub>FAV</sub>	mA		200

### **■Electrical Characteristics** (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	VR	V	IR= 100uA	40	
Reverse Leakage Current	IR	nA	VR=30V		200
E-mand Malla ma	\/_	V	IF=1mA		0.38
Forward Voltage	VF		IF=40mA		1
Reverse Recovery Time	Trr	ns	IF=IR=10mA to IR=1mA,RL=100Ω,		5
Capacitance	Cj	pF	VR=0V, f=1MHZ		4

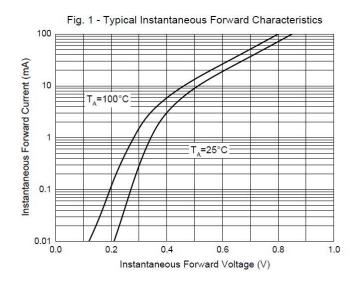
**■Ordering Information** (Example)

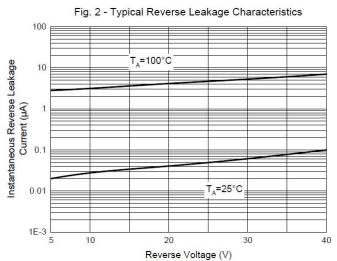
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS40X	F2	Approximate 0.0025	8000	80000	320000	7" reel

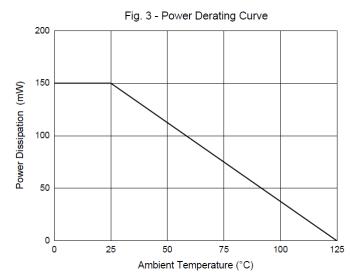


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## **■Characteristics**(Typical)



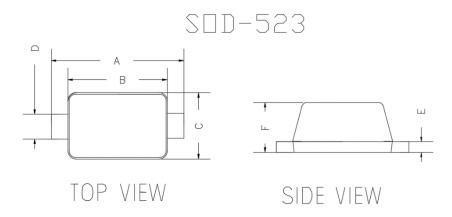






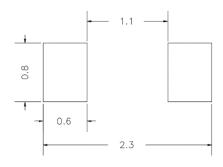


### **■ Outline Dimensions**



DIMENSIONS						
DIM	INC	HES	мм			
	MIN	MAX	MN	MAX		
Α	0.059	0.067	1.500	1.700		
В	0.043	0.051	1.100	1.300		
С	0.028	0.035	0.700	0.900		
D	0.010	0.014	0.250	0.350		
E	0.002	0.008	0.050	0.200		
F	0.020	0.028	0.500	0.700		

## ■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



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