

BAS70X

Schottky Barrier Diode



Features

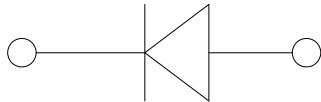
- V_R 70V
- I_F 70mA

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:** K73



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P_D	mW		150
Storage Temperature	T_{stg}	°C		-55 to +150
Junction Temperature	T_J	°C		125
DC Reverse Voltage	V_R	V		70
Average Rectified Forward Current	I_{FAV}	mA		70
Non-Repetitive Peak Forward Surge Current @ $t = 8.3ms$	I_{FSM}	A		0.1

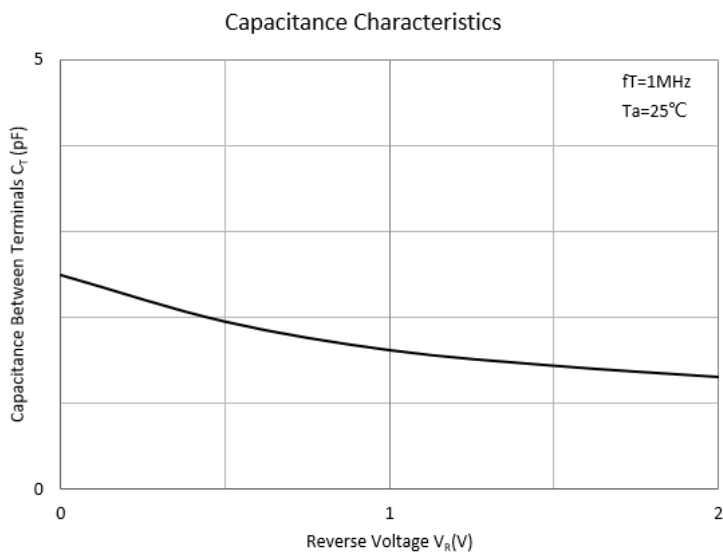
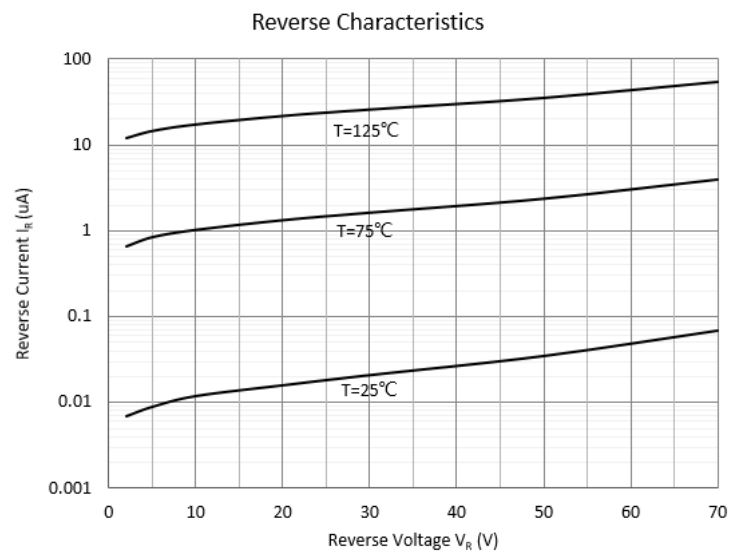
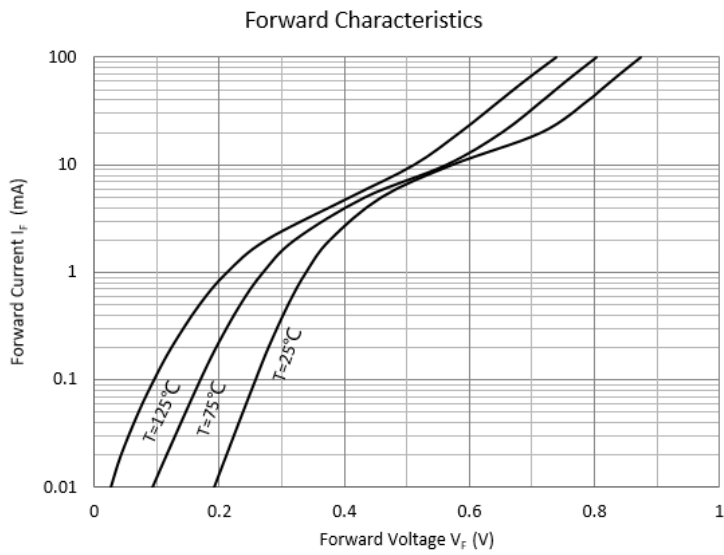
■ Electrical Characteristics ($T_A=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R = 10\mu A$	70	
Reverse Leakage Current	I_R	nA	$V_R = 50V$		100
Forward Voltage ²	V_F	V	$I_F = 1mA$		0.41
			$I_F = 15mA$		1
Reverse Recovery Time	T_{rr}	ns	$I_F = I_R = 10mA$ to $I_R = 1mA, R_L = 100\Omega$		5
Capacitance	C_j	pF	$V_R = 1V, f = 1MHz$		2

■ Ordering Information (Example)

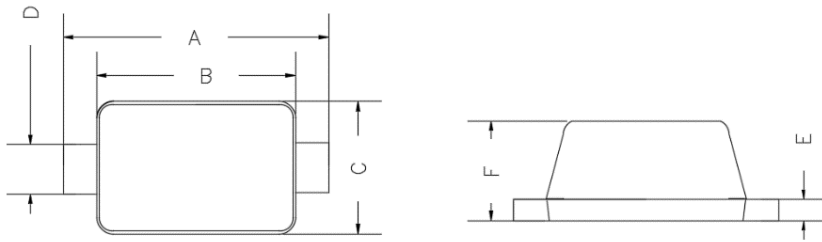
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS70X	F2	Approximate 0.0025	8000	80000	320000	7" reel

■ Characteristics(Typical)



■ Outline Dimensions

SOD-523

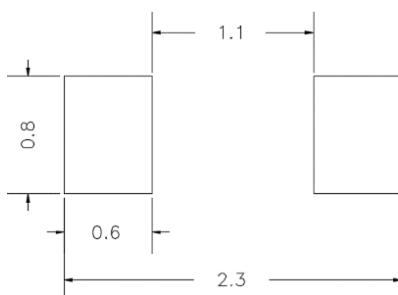


TOP VIEW

SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	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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