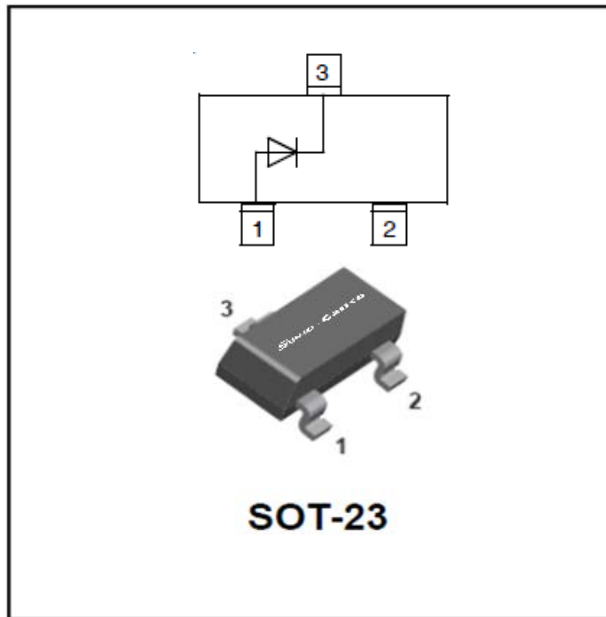


Switching Diode



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Current Leakage
- Marking:JS

■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Reverse Voltage	V_R	V	250
Forward Continuous Current, Per Leg	I_F	mA	200
Non-Repetitive Peak Forward Surge Current @ t=1s,	I_{FSM}	A	0.5
Power Dissipation	P_D	mW	250
Operation Junction Temperature	T_J	°C	-55 to +150
Storage Temperature	T_{STG}	°C	-55 to +150

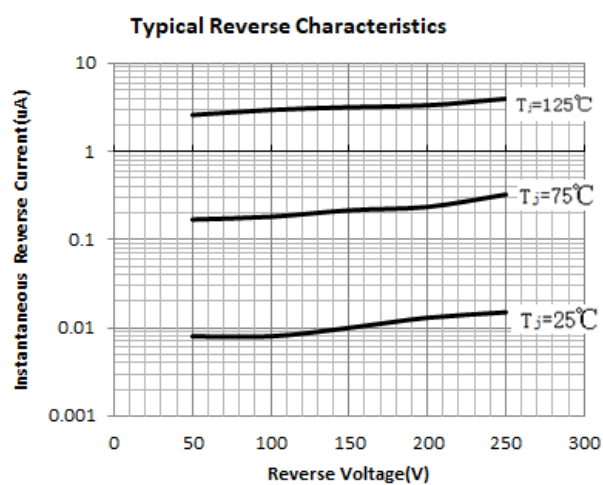
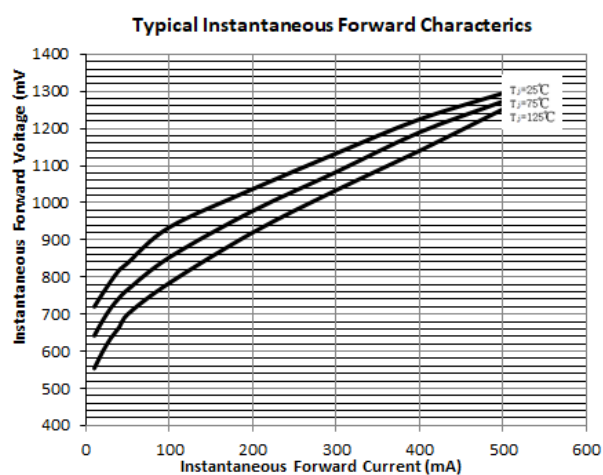
■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS21	F2	Approximate 0.008	3000	30000	120000	7" reel

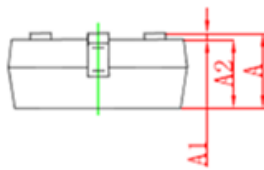
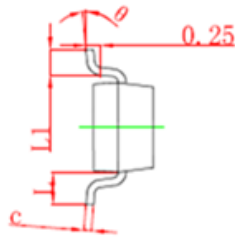
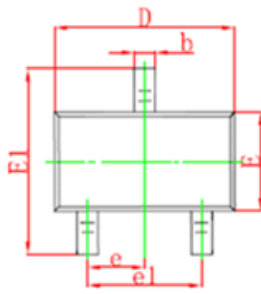
■ Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified, Per Leg)

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V_R	V	$I_R=100\mu\text{A}$	250
Maximum Instantaneous Forward Voltage	V_F	V	$I_{FM}=100\text{mA}$, $T_J=25^{\circ}\text{C}$	1.0
			$I_{FM}=200\text{mA}$, $T_J=25^{\circ}\text{C}$	1.25
Maximum DC Reverse Current	I_R	nA	$V_R=200\text{V}$	100
Typical Junction Capacitance	C_J	pF	$f=1.0\text{MHz}$, $V_R=0\text{V}$	5
Reverse Recovery Time	T_{rr}	ns	$I_F=30\text{mA}$, $I_R=30\text{mA}$, $R_L=100\Omega$, $I_{rr}=3\text{mA}$	50

■ Typical Characteristics (Per Leg)

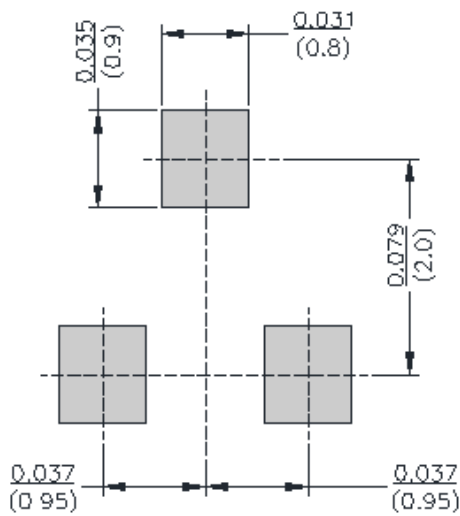


■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23 Suggested Pad Layout



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