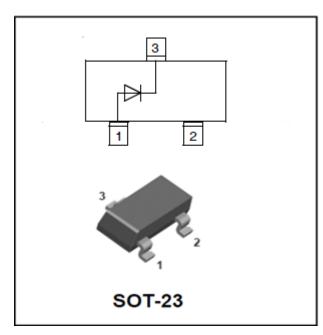




Switching Diode



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Moisture Sensitivity Level 1
- •Low Current Leakage
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

•For General Purpose Switching Applications

Mechanical Data

•Case: SOT-23

•Terminals: Tin plated leads, solderable per J-STD-002

and JESD22-B102

•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}	Α	0.5
Power Dissipation	P _D	mW	250
Operation Junction Temperature	TJ	$^{\circ}$	-55 to +150
Storage Temperature	T _{STG}	$^{\circ}$	-55 to +150

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS21Q	F2	Approximate 0.010	3000	30000	120000	7" reel

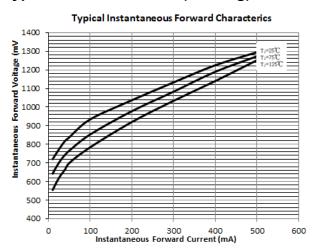


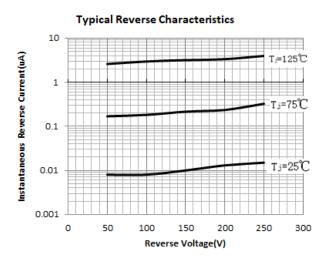
BAS21Q

■Electrical Characteristics (T_a=25℃ Unless otherwise specified, Per Leg)

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V _R	V	IR=100uA	250
Maximum Instantaneous Forward Voltage	V _F	V	I _{FM} =100mA, T _J =25℃	1.0
			I _{FM} =200mA, T _J =25℃	1.25
Maximum DC Reverse Current	I _R	nA	V _R =200V	100
Typical Junction Capacitance	Сл	pF	f=1.0MHz, V _R =0V	5
Reverse Recovery Time	Trr	ns	I_F =30mA, I_R =30mA, R_L =100 Ω , I_{rr} =3mA	50

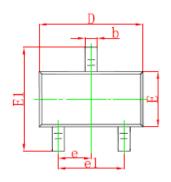
■ Typical Characteristics (Per Leg)

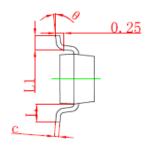


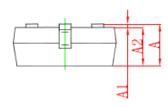




■SOT-23 Package Outline Dimensions

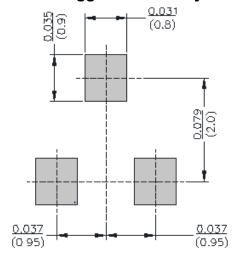






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

■SOT-23 Suggested Pad Layout



Unit: inch(mm)



BAS21Q

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