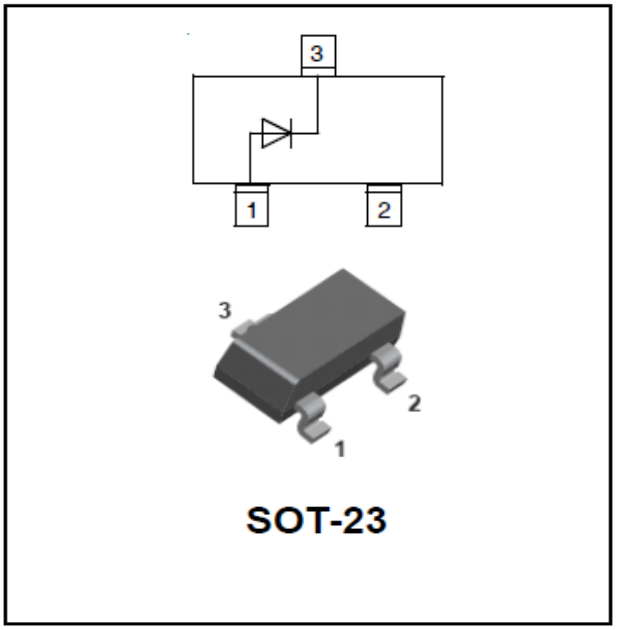
Switching Diode



Features

- ●Epoxy meets UL-94 V-0 flammability rating
- ●Moisture Sensitivity Level 1
- ●High Conductance
- ●Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

- ● **Package**: SOT-23

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- ● **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- ● **Marking**: A6

■Maximum Ratings, (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Value
Repetitive peak reverse voltage	V_{RRM}	V	100
Reverse Voltage	V_R	V	75
Forward Continuous Current, Per Leg	I_F	mA	200
Non-Repetitive Peak Forward Surge Current @ t=1s,	I_{FSM}	A	1
Power Dissipation	P_D	mW	350
Operation Junction Temperature	T_J	℃	-55 to +150
Storage Temperature	T_{STG}	℃	-55 to +150

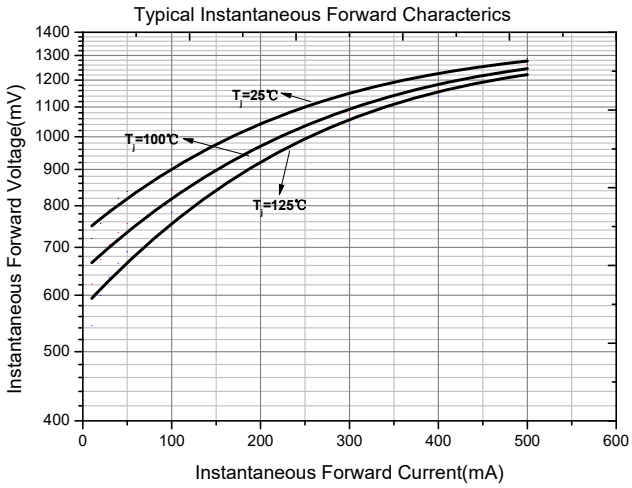
■Ordering Information (Example)

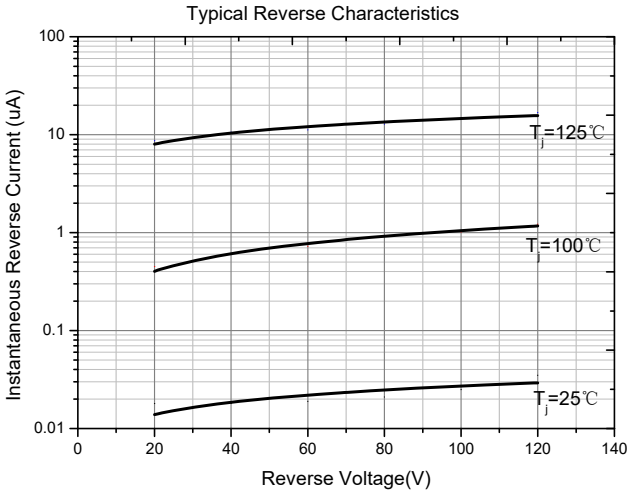
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS16	F2	Approximate 0.008	3000	30000	120000	7” reel

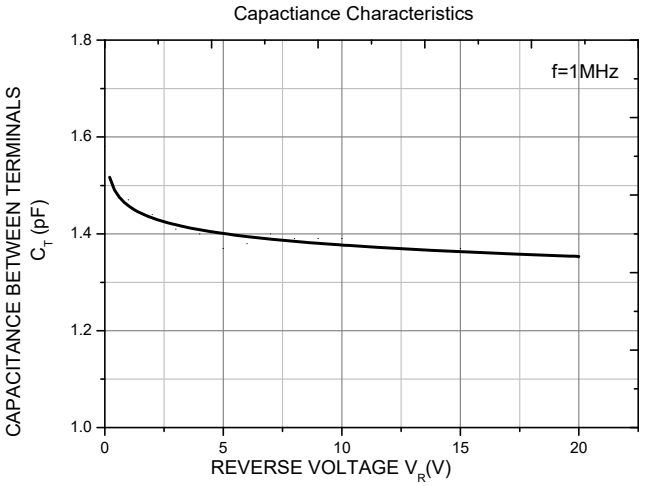
■Electrical Characteristics（T_a=25℃ Unless otherwise specified, Per Leg）

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V_R	V	IR=100uA	75
Maximum Instantaneous Forward Voltage	V_F	V	I_{FM}=10mA, T_J=25℃	0.855
			I_{FM}=150mA, T_J=25℃	1.25
Maximum DC Reverse Current	I_R	nA	V_R=20V	25
		uA	V_R=75V	1
Typical Junction Capacitance	C_J	pF	f=1.0MHz, V_R=0V	4
Reverse Recovery Time	T_{rr}	ns	I_F=10mA, V_R=6V, R_L=500Ω, I_{rr}=1mA	4

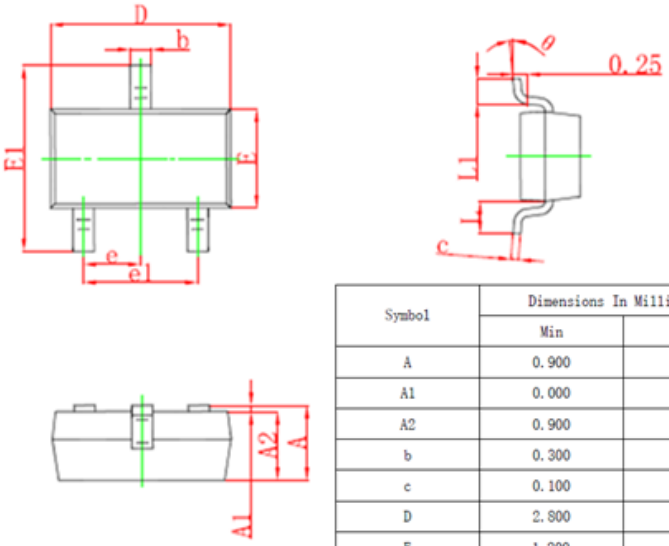
■ Typical Characteristics





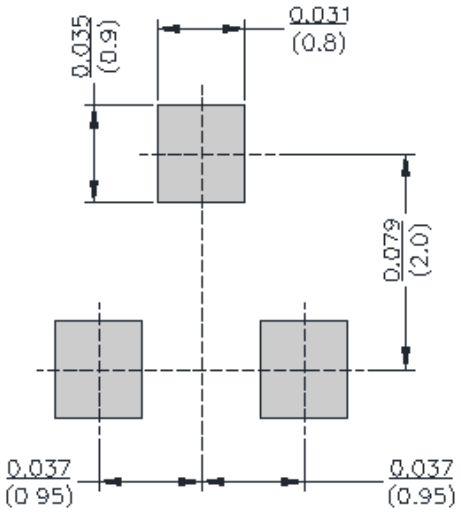


■SOT-23 Package Outline Dimensions



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-23Suggested Pad Layout



Notice

All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise. Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in STARSEA's terms and conditions of sale for such products, STARSEA assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of STARSEA products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.