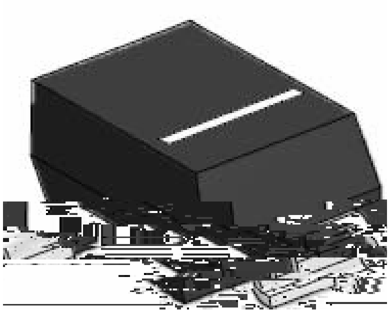
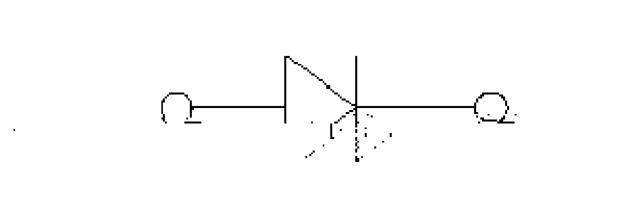
High Speed Switching Diode





Features

- V_R 75V
- I_{FAV} 200mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** T4

■ Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		75
Peak forward surge current	I_{FSM}	A	t_p=10μs	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_{tot}	mW		350
Thermal Resistance	R_{thJA}	/W		315
Maximum junction temperature	T_j			-55 ~ +150
Storage temperature range	T_{stg}			-55 ~ +150

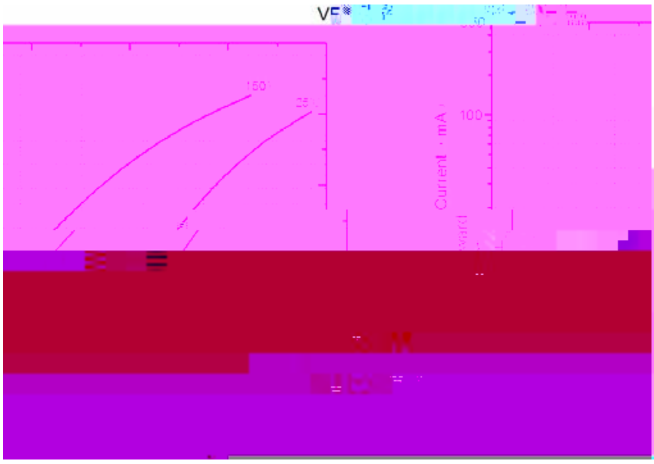
■ Electrical Characteristics (Ta=25 Unless otherwise specified)

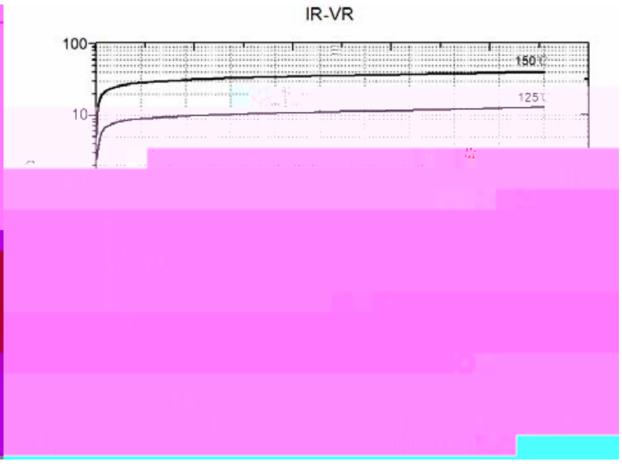
PARAMETER	SYMBOL	UNIT	Conditions	Min	Typ	Max
Maximum Forward voltage	VF	V	I_F=1mA			0.715
	VF	V	I_F=10mA			0.855
	VF	V	I_F=50mA			1.0
	VF	V	I_F=150mA			1.25
[redacted]	IR	μA	V_R=75V			1.0
Minimum Breakdown voltage	V_R	V	I_R=100μA	100		
	$_{rr}$	ns	I_F=10mA,Irr=0.1I_R,R_L=100Ω			6

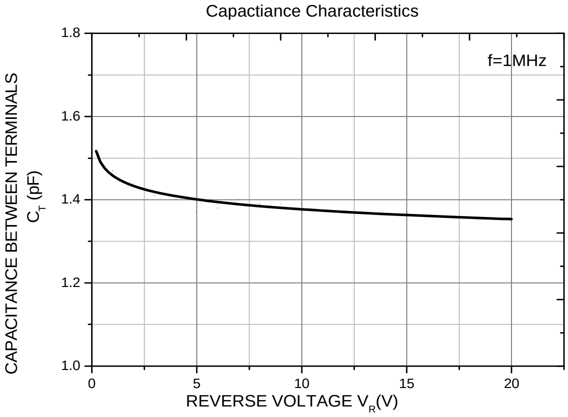
■ **Ordering Information** (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS16WS	F2	Approximate 0.0048	3000	30000	120000	7” reel

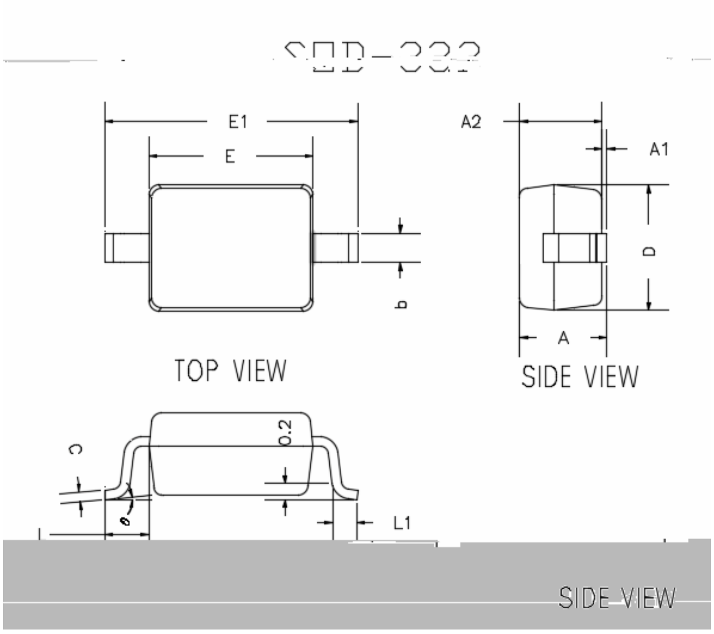
■ **Characteristics** (Typical)





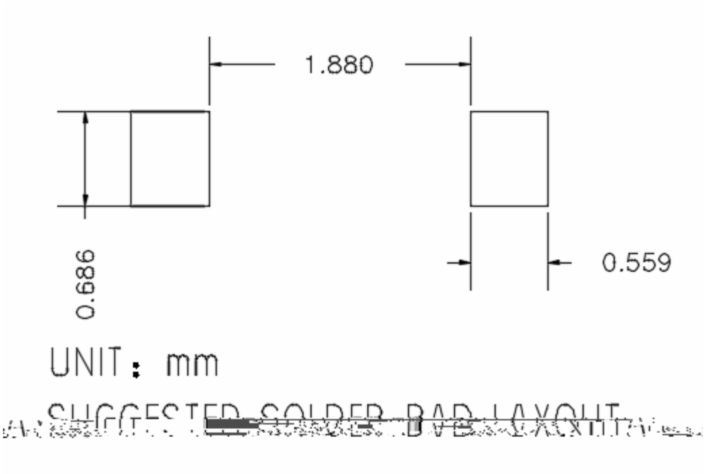


■Outline Dimensions



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

■Soldering Footprint



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