

### ■ 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 ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

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

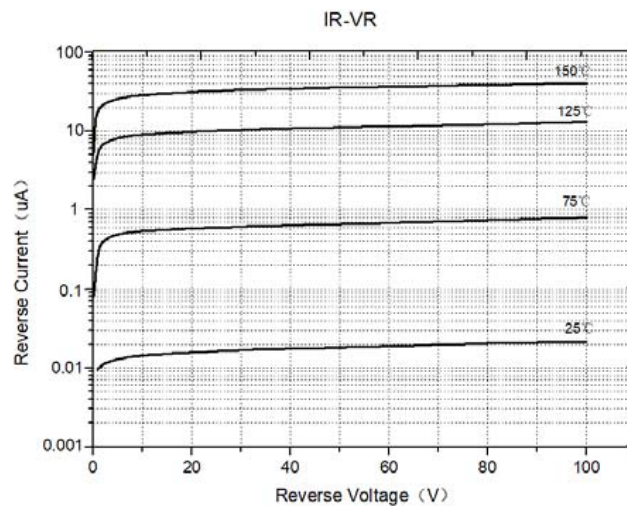
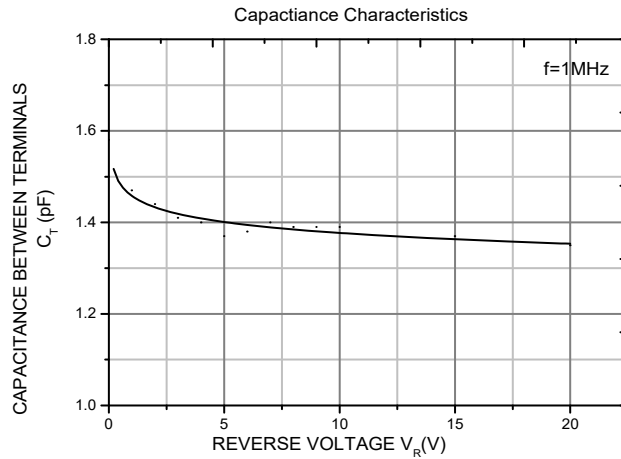
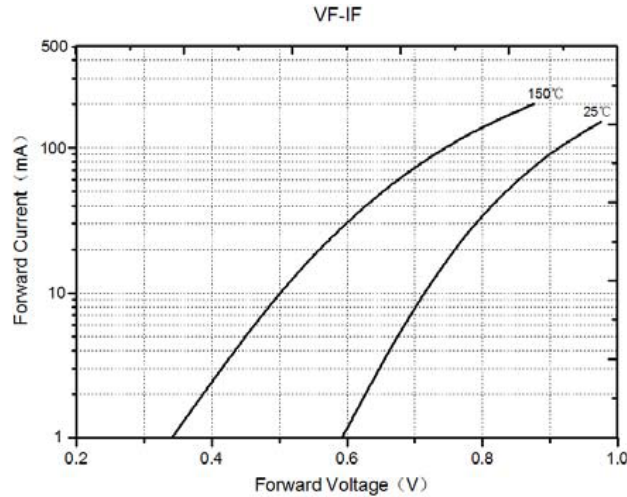
### ■ ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	Min	Typ	Max
Maximum Forward voltage	$V_F$	V	$I_F=1\text{mA}$			0.715
	$V_F$	V	$I_F=10\text{mA}$			0.855
	$V_F$	V	$I_F=50\text{mA}$			1.0
	$V_F$	V	$I_F=150\text{mA}$			1.25
Maximum Reverse current	$I_R$	$\mu\text{A}$	$V_R=75\text{V}$			1.0
Minimum Breakdown voltage	$V_R$	V	$I_R=100\mu\text{A}$	100		
Maximum Diode capacitance	$C_D$	pF	$V_R=V_F=0\text{V}$ , $f=1\text{MHz}$			4
Maximum Reverse recovery time	$t_{rr}$	ns	$I_F=10\text{mA}$ , $I_{rr}=0.1I_R$ , $R_L=100\Omega$			6

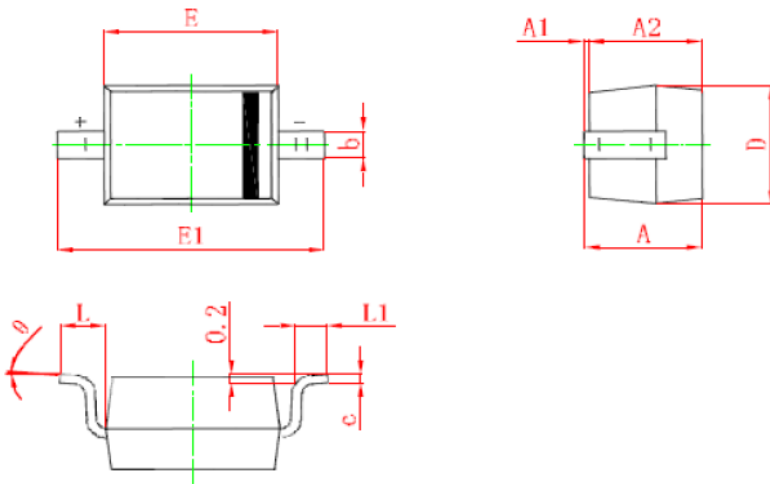
■ **PACKAGING INFORMATION**

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS16WS	F2	Approximate 0.004	3000	30000	120000	7" reel

■ **CHARACTERISTICS (TYPICAL)**



■ **OUTLINE DIMENSIONS**



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
$\theta$	0°	8°

■ **SUGGESTED PAD LAYOUT**

