

■ **FEATURES**

- VR 100V
- I_{FAV} 200mA

■ **TYPICAL APPLICATIONS**

- Low-Leakage

■ **MECHANICAL DATA**

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** D4

■ **MAXIMUM RATINGS** (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V _{RRM}	V		85
Reverse voltage	V _R	V		100
Peak forward surge current	I _{FSM}	A	Non-Repetitive t = 1 μs	4
Average forward current	I _{FAV}	mA		200
Power dissipation	P _{tot}	mW		250
Thermal Resistance Junction to Ambient Air	R _{θJA}	°C /W		500
Maximum junction temperature	T _j	°C		150
Storage temperature range	T _{stg}	°C		-55 to +150

■ **ELECTRICAL CHARACTERISTICS** (T_a=25°C Unless otherwise specified)

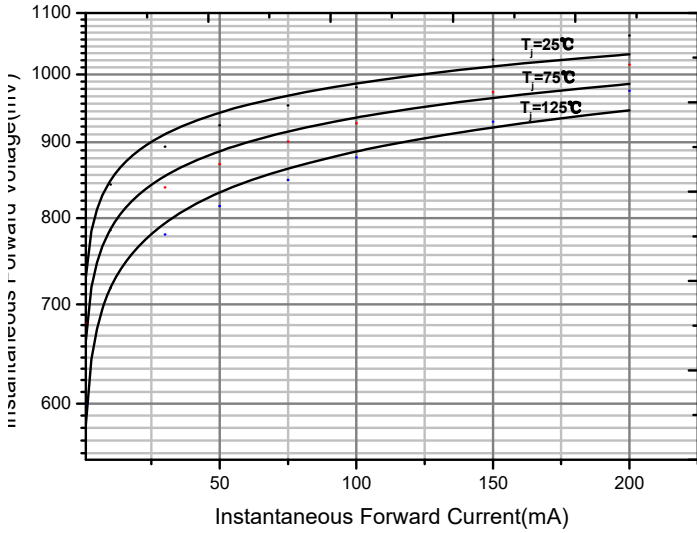
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V _R	V	IR=100uA	100	
Forward Voltage	V _F	V	IF=1mA		0.9
			IF=10mA		1.0
			IF=50mA		1.1
			IF=150mA		1.25
Reverse Leakage Current	I _R	nA	VR=75V		5
Capacitance	C	pF	VR=0V, f=1MHz		4
Reverse Recovery Time	T _{rr}	us	IF=IR=10mA, I _{rr} =0.1*IR, RL=100Ω		3

■ **PACKAGING INFORMATION**

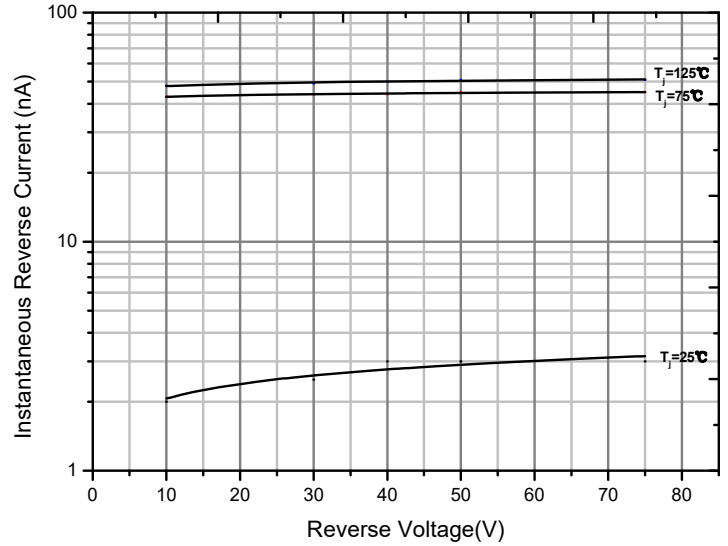
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS416	F2	Approximate 0.004	3000	30000	120000	7" reel

■ **CHARACTERISTICS (TYPICAL)**

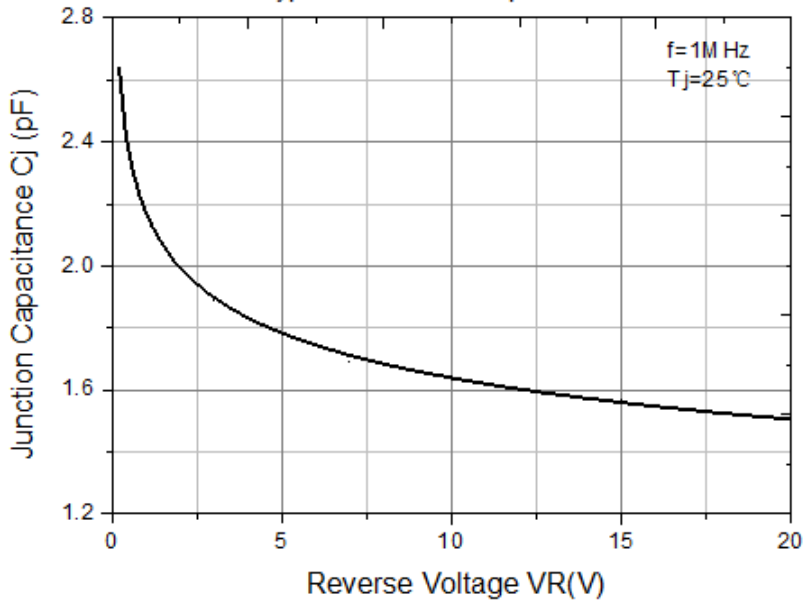
Typical Instantaneous Forward Characteristics



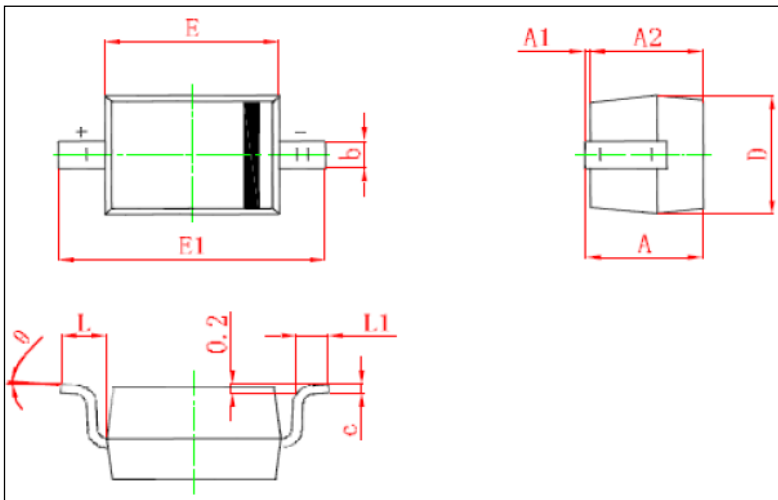
Typical Reverse Characteristics



Typical Junction Capacitance

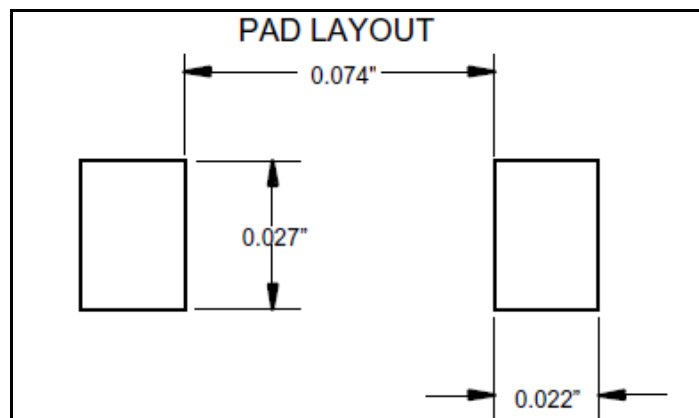


■ **OUTLINE DIMENSIONS**



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
θ	0°	8°

■ **SOLDERING FOOTPRINT**



Unit: inches