

BAS321

General Purpose Diode

Features

- · Very small plastic SMD package.
- · High switching speed:max. 50ns
- · Continuous reverse voltage:max.200v
- · Repetitive peak reverse voltage:max.250v
- · Repetitive peak forward current:max.650mA
- · RoHS compliant package

Mechanical Data

· Case: SOD-323 Molded plastic

· Epoxy: UL94V-O rate flame retardant

Packing & Order Information

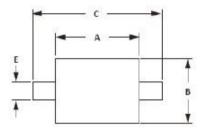
3.000/Reel

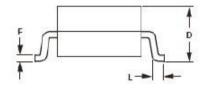


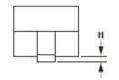
COMPLIANT

Graphic symbol









OUTLINE DIMENSIONS						
DIM	MILLIMETERS		INCHES			
	MIN	MAX	MIN	MAX		
А	1.60	1.90	0.063	0.075		
В	1.15	1.45	0.045	0.057		
С	2.39	2.70	0.094	0.106		
D	0.80	1.10	0.031	0.043		
E	0.25	0.40	0.010	0.016		
F	0.10	0.20	0.004	0.008		
Н		0.10	- 20	0.004		
L	0.20	-	0.008	-		

NOTES

- Controlling dimension: millimeters.
 Dimensioning and tolerances per ANSI Y14.5M, 1985.
 Dimensions are exclusive of mold flash and metal burrs.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

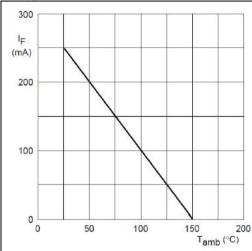
Maximum Ratings (T _A =25°C unless otherwise specified)							
Symbol	Parameter	MIN	MAX	Unit			
PD(Ta=25°C)	Power dissipation		300	mW			
IF	Forward Current		250	ma			
VR	Reverse Voltage VR		200	V			
$T_{\rm J}/T_{ m STG}$	Junction and Storage Temperature		-55 to +150	°C			
V(BR)	Reverse Breakdown Voltage(IR=100uA)	250		V			
IR	Reverse Leakage Current(VR=200V)		1	uA			
	Forward Voltage(Test Condition)						
VF	IF=100mA		1.0	V			
	IF=200mA		1.25				
CD	Diode Capacitance (VR=0V, f=1MHz)		2	pF			
Trr	Reverse Recovery Time		50	nS			



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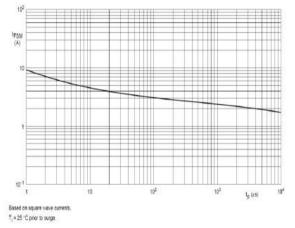
■Typical Device Characteristics



600 IF (mA)
400 1 1 (2) (3)
200 1 VF (V) 2

FIG.1- MAXIMUM PERMISSIBLE CONTINUOUS FORWARD CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE

FIG.2- FORWARD CURRENT AS A FUNCTION OF FORWARD VOLTAGE



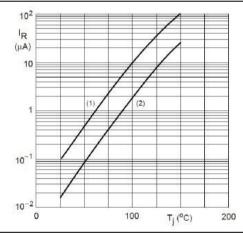
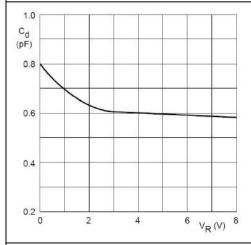


FIG.3- MAXIMUM PERMISSIBLE NON-REPETITIVE PEAK FORWARD CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE

FIG.4- REVERSE CURRENT AS A FUNCTION OF JUNCTION TEMPERATURE



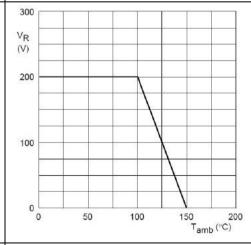


Fig 5- DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE, TYPICAL VALUES

Fig 6- DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE, TYPICAL VALUES



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