

BAS16H

Surface Mount Switching Diodes

Features

- · Fast switching.
- Designed for surface mount application.
- · Plastic material-UL recognition flammability

classification 94V-O

· RoHS compliant package

Applications

· Surface mount fast switching diode

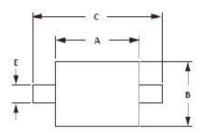
Mechanical Case: SOD-323 Packing & Order Information

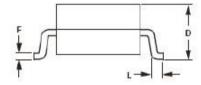
3,000/Reel

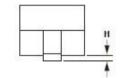


Graphic symbol









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	
Е	0.25	0.40	0.010	0.016	
F	0.10	0.20	0.004	0.008	
Н		0.10	-	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 RATING @ Ta=25°C unless otherwise specified				
Symbol	Parameter	Value	Unit	
V_R	Continuous Reverse Voltage	75	V	
\mathbf{I}_{F}	Forward Continuous Current	200	mA	
I_{FSM}	Peak forward surge current	500	mA	
P_d	Power Dissipation	200	mW	
RөJA	Thermal Resistance Junction to Ambient 635		°C/W	
Tj,Tstg	Junction and Storage Temperature Rage	-55 to +150	°C	



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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified						
Symbol	Parameter	Test Conditions	MIN	TYP	MAX	UNIT
$V_{(RB)R}$	Reverse Breakdown Voltage	$I_R = 100 \mu A$	75			V
V_{F}	Forward Voltage	$I_F = 1.0 \text{ mA}$			715	mV
		$I_F = 10 \text{ mA}$			855	
		$I_F = 50 \text{ mA}$			1000	
		$I_F = 150 \text{ mA}$			1250	
I_R	Reverse Current	$V_R = 75 \text{ V}$			1.0	
		$V_R = 75~V~,~T_J = 150^{\circ}C$			50	μA
		$V_R = 25 \text{ V}, T_J = 150^{\circ}\text{C}$			30	
C_D	Diode Capacitance	VR=0,f=1.0MHz			2	pF
V _{FR}	Forward recovery voltage	$I_F = 10 \text{ mA}$, $tr = 20 \text{ nS}$			1.75	V
Qs	Stored Charge	$I_F = 10 \text{ mA to } V_R = 5.0 \text{ V}$			4.5	pC
		$R_L = 500 \Omega$			45	
Trr	Reverse Recovery	$I_F = I_R = 10 \text{ mA}, R_L = 50 \Omega$			5	ns

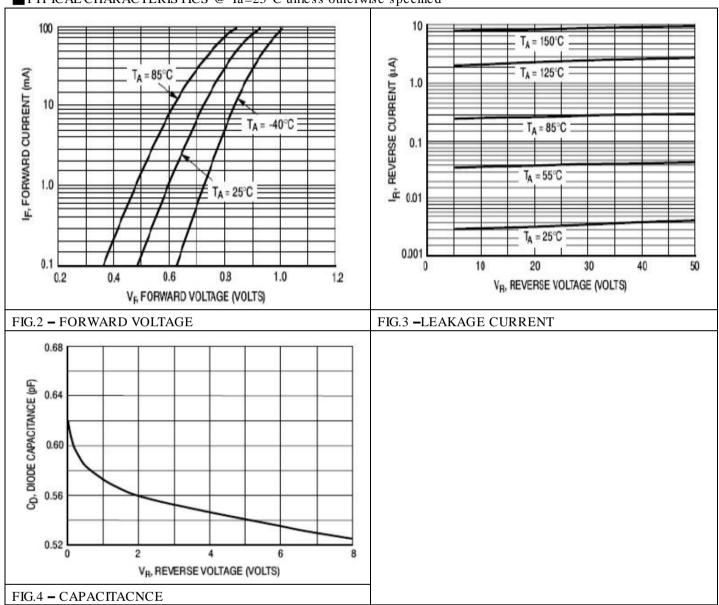
ORDERING INFORMATION					
Type No.	Marking	Package Code			
BAS 16H	A6	SOD-323			



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■TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





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