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BAS416

FAST SWITHING DIODES

Features

- V_R=100V
- $I_{F(AV)}$=200mA
- Power Dissipation of 250mW
- Fast switching speed
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C

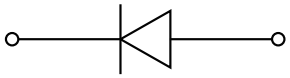
SOD-323

Applications

For use in low voltage high frequency circuit signals.

Mechanical Data

- Case: SOD-323
  Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Maximum repetitive peak reverse voltage	V_{RRM}	V	85
Maximum RMS Voltage	V_{RMS}	V	75
Reverse Breakdown voltage @I_R=100μA	$V_{(BR)R}$	V	100
Maximum Average Forward Rectified Current	$I_{F(AV)}$	mA	200
Non-Repetitive Peak forward surge current @tp=1μs	I_{FSM}	A	4.0
Non-Repetitive Peak forward surge current @tp=1ms			1.0
Non-Repetitive Peak forward surge current @tp=1s			0.5
Power Dissipation	P_d	mW	250
Storage temperature	T_{stg}	°C	-55 ~+150
Junction temperature	T_j	°C	-55 ~+150
Typical thermal resistance	$R_{\theta J-A}$	°C /W	450

Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	Min	Typ	Max
Maximum instantaneous forward voltage	I_F=1.0mA	V_F	V	—	—	0.90
	I_F=10mA			—	—	1.0
	I_F=50mA			—	—	1.1
	I_F=150mA			—	—	1.25
Reverse Leakage Current	V_R=75V	I_R	nA	—	—	5.0
	V_R=75;T_j=150°C		μA	—	—	80
Total capacitance	V_R=0V,f=1MHz	C_T	pF	—	2.0	—
Maxinum reverse recovery time	I_F=I_R=10mA,I_{rr}=0.1×I_R, R_L=100Ω	T_{rr}	μs	—	0.8	3.0

Zhuhai Hongjiacheng Technology co., Ltd

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

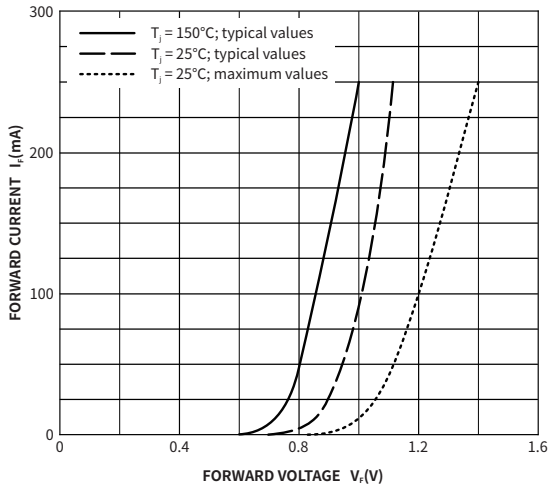


Fig.1 Typical Instaneous Forward Characteristics

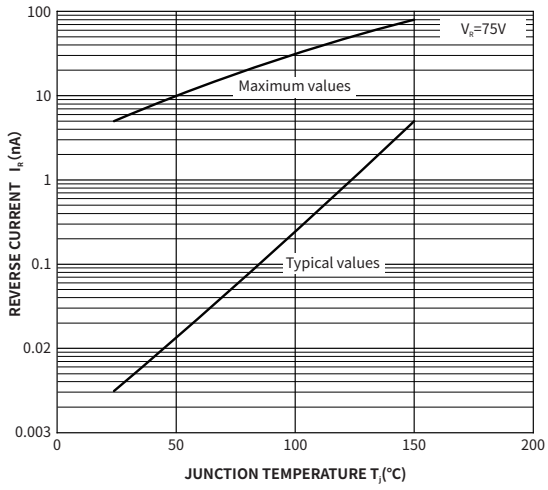


Fig.2 Reverse current as a function of junction temperature

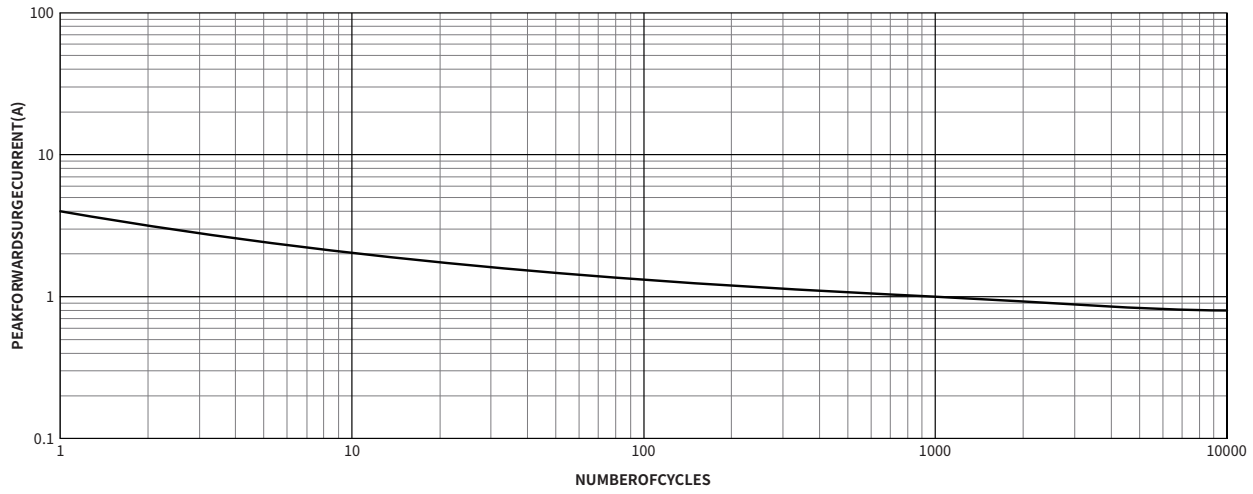


Fig.3 Maximum Non-Repetitive Peak Forward Surge Current

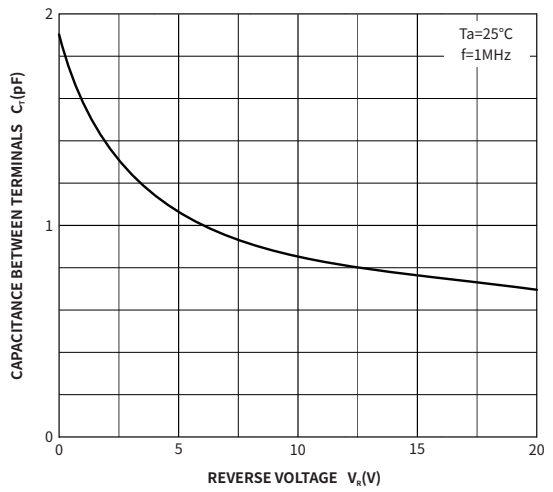


Fig.4 Typical Junction Capacitance

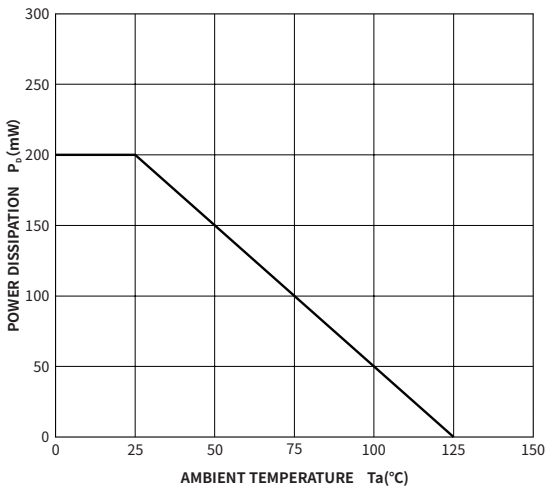
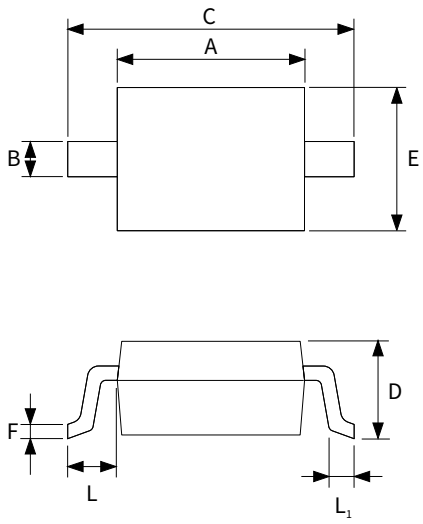


Fig.5 Power Derating Curve

Ordering Information

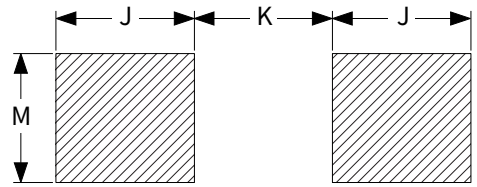
PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SOD-323	R1	0.0048	3000	30000	120000	7''

Package Outline Dimensions (SOD-323)



Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.60	1.80	0.063	0.071
B	0.25	0.40	0.010	0.016
C	2.30	2.80	0.091	0.110
D	0.80	1.10	0.031	0.043
D_1	0.80	0.90	0.031	0.035
E	1.20	1.40	0.047	0.055
F	0.08	0.18	0.003	0.007
L	0.475REF		0.019REF	
L_1	0.25	0.40	0.010	0.016
H	-	0.14	-	0.006

Suggested Pad Layout



Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	0.80	-	0.031	-
K	-	1.40	-	0.055
M	0.80	-	0.031	-

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