



## Features

- Fast switching speed
- For general purpose switching applications
- High conductance
- Silicon epitaxial planar chip
- Reverse Voltage: 75 Volts
- Forward Current: 150mA

Marking:A6

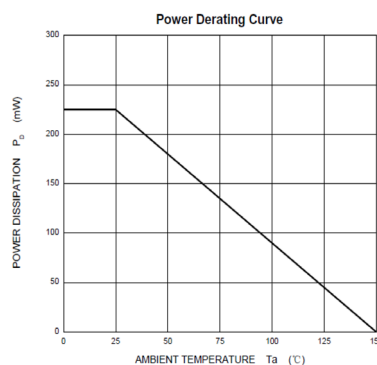
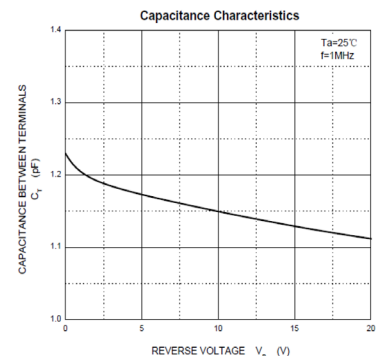
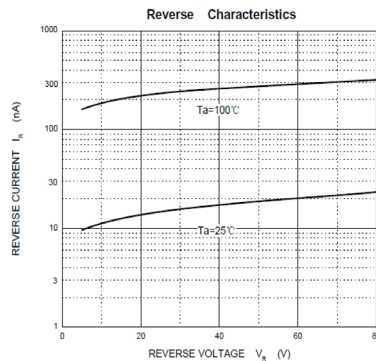
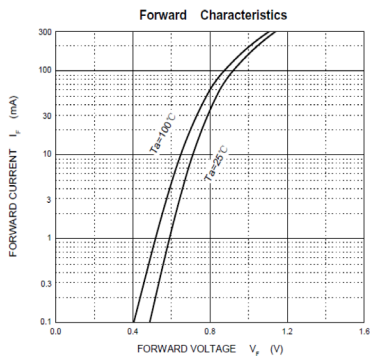
## Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Units
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Repetitive Peak Reverse Voltage	$V_{RRM}$	75	
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	53	
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_O$	150	
Non-Repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	2	A
Power Dissipation	$P_D$	225	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	556	
Junction temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-55 to +150	

## Electrical Characteristics (TA= 25°C unless otherwise noted)

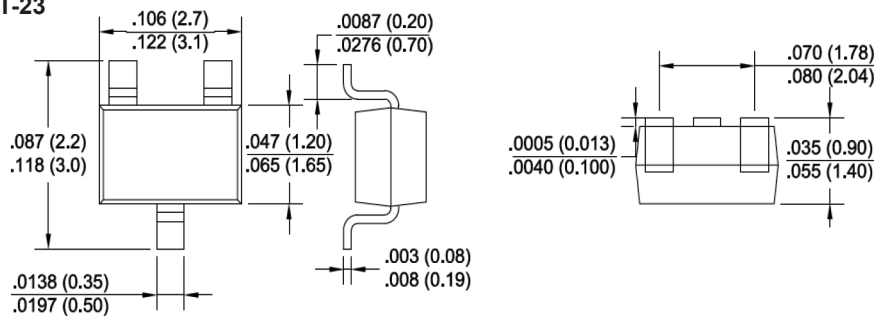
Characteristic	Symbol	Test Condition	Min.	Max.	Units
Forward Voltage	$V_F$	$I_F=10mA$	-	0.715	V
		$I_F=50mA$		0.855	
		$I_F=150mA$		1	
		$I_F=1mA$		1.25	
Reverse voltage leakage current	$I_R$	$V_R=75V$	-	1	$\mu A$
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	75	-	V
Diodes capacitance	$C_D$	$V_R=0V, f=1MHz$	-	2	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R$ $R_L=100\Omega$	-	6	ns

## Rating and Characteristic Curves



## Diagram

### SOT-23



## Part Number Table

Description	Part Number
Small Signal Diode, Single, 75V, 200mA, 1.25V, 6ns, 2A	BAS16

Dimensions : Inches (Millimetres)

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