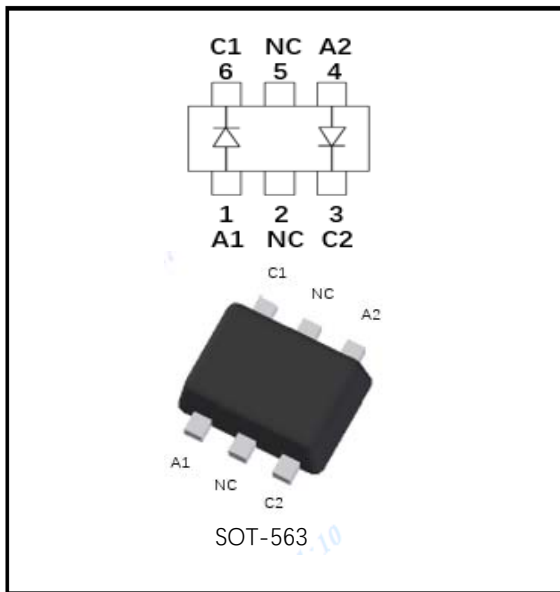


## Switching Diode



### Features

- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

### Mechanical Data

- **Package:** SOT-563
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** KAM
- **Solid point:** A1 positioning point

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

Item	Symbol	Unit	Value
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	V	100
Average Rectified Output Current	$I_O$	mA	200
Non-Repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	A	1.5
Power Dissipation	$P_d$	mW	150
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	°C/W	833
Operation Junction Temperature	$T_J$	°C	-55 to +150
Storage Temperature	$T_{STG}$	°C	-55 to +150

### ■Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	$V_R$	V	$I_R = 100\mu A$	75
Maximum Instantaneous Forward Voltage	$V_F$	V	$I_F = 1mA$	0.715
			$I_F = 10mA$	0.855
			$I_F = 50mA$	1.0
			$I_F = 150mA$	1.25
Maximum DC Reverse Current	$I_R$	$\mu A$	$V_R = 75V$	2.5
Maximum Junction Capacitance	$C_J$	pF	$f = 1.0MHz, V_R = 0V$	4
Maximum Reverse Recovery Time	$T_{rr}$	ns	$I_F = I_R = 10mA, I_{rr} = 0.1I_R, R_L = 100\Omega$	4

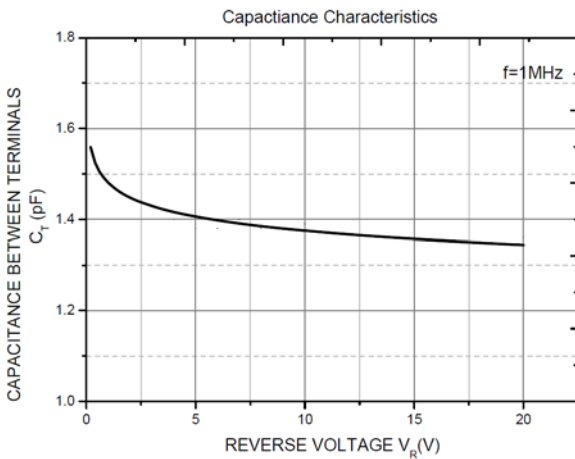
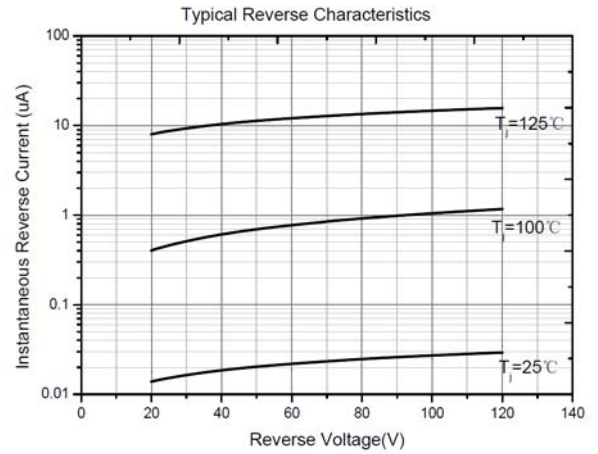


# BAS16V

## Ordering Information (Example)

Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
BAS16V	F2	Approximate 0.0035	3000	30000	120000	7" reel

## Characteristics (Typical)

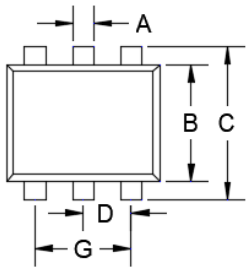




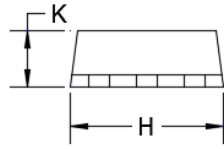
# BAS16V

## ■ Outline Dimensions

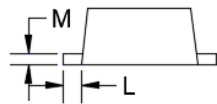
SOT-563



TOP VIEW



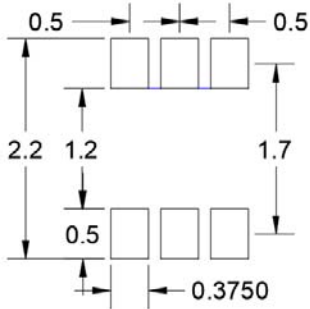
SIDE VIEW



SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.006	0.011	0.150	0.300
B	0.043	0.051	1.100	1.300
C	0.059	0.067	1.500	1.700
D	0.016	0.024	0.400	0.600
G	0.035	0.043	0.900	1.100
H	0.059	0.067	1.500	1.700
K	0.021	0.026	0.550	0.650
L	0.004	0.011	0.100	0.300
M	0.004	0.007	0.100	0.180

## ■ Suggested Pad Layout



单位: mm

SUGGESTED SOLDER PAD LAYOUT



## BAS16V

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