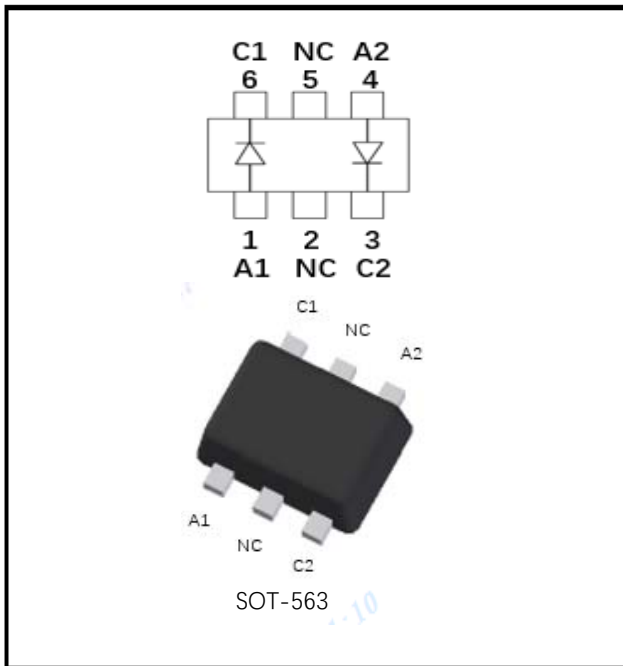


## Schottky Barrier Diode



### Features

- Moisture Sensitivity Level 1
- Low Forward Voltage
- Surface Mount device

### Mechanical Data

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

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

Item	Symbol	Unit	Value
Continuous Reverse Voltage	$V_R$	V	30
Forward Continuous Current	$I_F$	mA	200
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	$I_{FSM}$	A	0.6
Total Power Dissipation @ TA=25°C	$P_D$	mW	150
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	°C/W	667
Operation Junction Temperature	$T_J$	°C	-55 to +125
Storage Temperature	$T_{STG}$	°C	-55 to +125

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

Item	Symbol	Unit	Conditions	Value
Maximum Instantaneous Forward Voltage	$V_F$	V	$I_{FM}=0.1mA$	0.24
			$I_{FM}=1mA$	0.32
			$I_{FM}=10mA$	0.4
			$I_{FM}=30mA$	0.5
			$I_{FM}=100mA$	1
Maximum DC Reverse Current	$I_R$	uA	$V_R=25V$	2
Typical Junction Capacitance	$C_J$	pF	f=1.0MHz, $V_R=1.0V$	10
Maximum Reverse Recovery Time	$T_{rr}$	ns	$I_F=I_R=10mA$ , $I_{rr}=0.1I_R$ , $R_L=100\Omega$	5

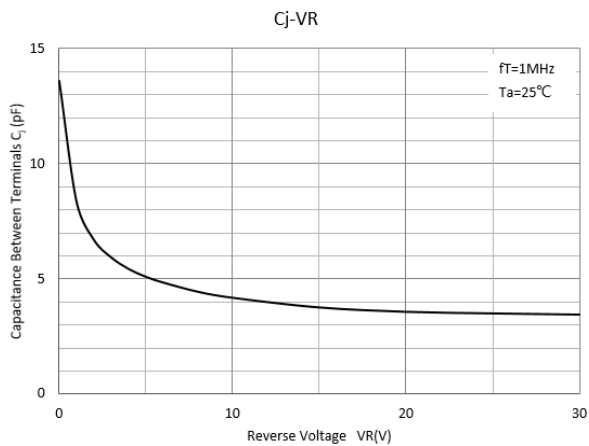
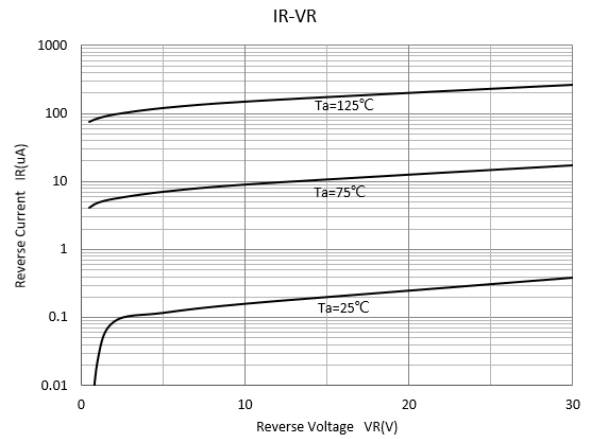
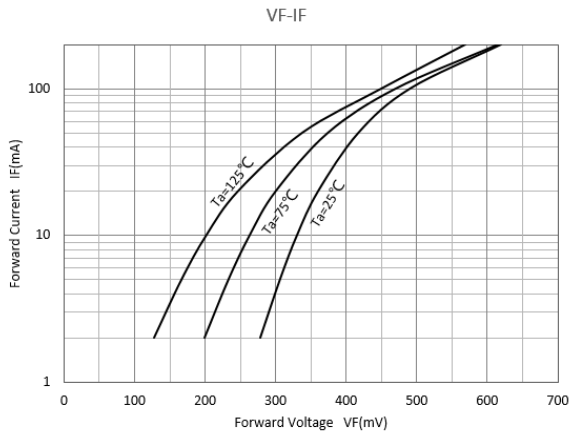


# BAT54V

## ■ Ordering Information (Example)

Preferred P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
BAT54V	F2	Approximate 0.0035	3000	30000	120000	7" reel

## ■ Characteristics (Typical)

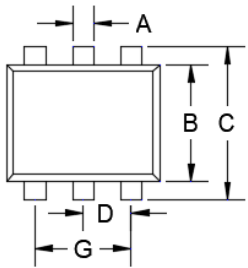




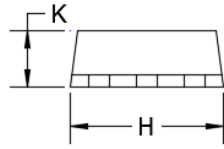
# BAT54V

## ■ Outline Dimensions

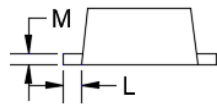
SOT-563



TOP VIEW



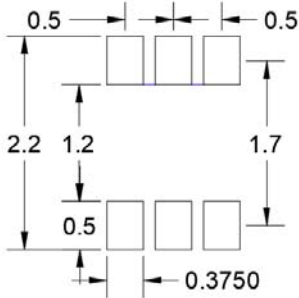
SIDE VIEW



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



## BAT54V

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