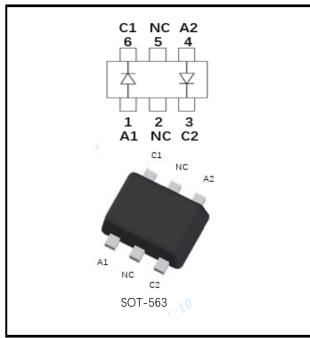




Schottky Barrier Diode



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)

ltem	Symbol	Unit	Value
Continuous Reverse Voltage	V_R	V	30
Forward Continuous Current	l _F	mA	200
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	А	0.6
Total Power Dissipation @ TA=25℃	P_{D}	mW	150
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	°C/W	667
Operation Junction Temperature	ΤJ	°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	VF	>	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	CJ	pF	f=1.0MHz, V _R =1.0V	10
Maximum Reverse Recovery Time	T _{rr}	ns	I _F =I _R =10mA ,I _{rr} =0.1*I _R , R _L =100Ω	5

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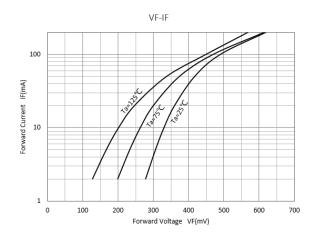


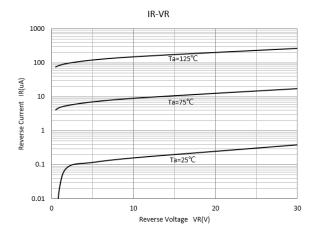
BAT54V

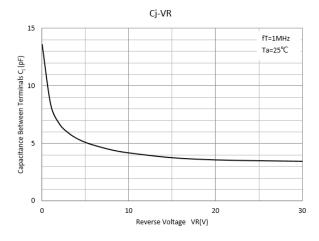
■ Ordering Information (Example)

Prefered 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)



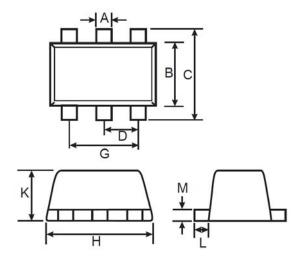






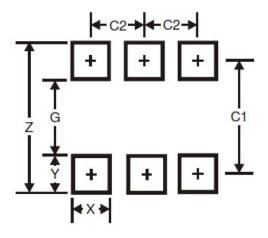


■ SOT-563 Package Outline Dimensions



DIMENSIONS					
DIM	INC	HES	MM		
	MIN	MAX	MIN	MAX	
Α	0.006	0.011	0.15	0.30	
В	0.043	0.051	1.10	1.30	
С	0.059	0.067	1.50	1.70	
D	0.016	0.024	0.40	0.60	
G	0.035	0.043	0.90	1.10	
Н	0.059	0.067	1.50	1.70	
K	0.021	0.026	0.55	0.65	
Ĺ	0.004	0.011	0.10	0.30	
М	0.004	0.007	0.10	0.18	

■ SOT-563 Suggested Pad Layout



Dimensions	Value (in mm)	
Z	2.2	
G	1.2	
X	0.375	
Y	0.5	
C1	1.7	
C2	0.5	



BAT54V

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