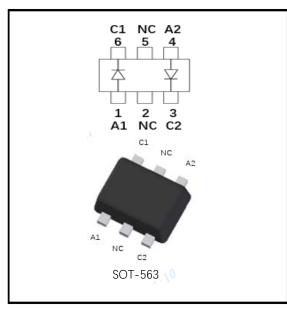




Switching Diode



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: KAL

• Solid point: A1 positioning point

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

ltem	Symbol	Unit	Value
Non-Repetitive Peak Reverse Voltage	V_{RM}	٧	100
Average Rectified Output Current	Io	mA	200
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	Α	1.5
Power Dissipation	Pd	mW	150
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	°C/W	833
Operation Junction Temperature	TJ	°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 =2.5uA	80
	V _F	V	I _F =5mA	0.720
Maximum Instantaneous Forward Voltage			I _F =10mA	0.855
			I _F =50mA	1.0
			I _F =150mA	1.25
Maximum DC Reverse Current	I _R	nA	V _R =20V	25
		uA	V _R =70V	0.1
Maximum Junction Capacitance	CJ	pF	f=1.0MHz, V _R =6.0V	3.5
Maximum Reverse Recovery Time	T _{rr}	ns	VR=6.0V,IF=5.0mA	4

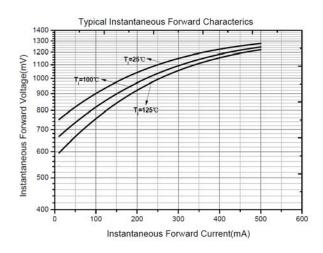


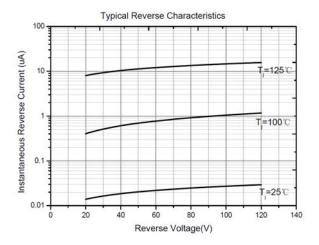
MMBD4448V

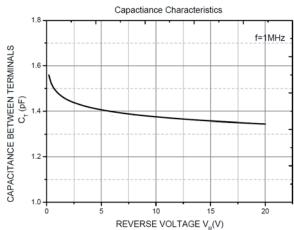
■ Ordering Information (Example)

Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
MMBD4448V	F2	Approximate 0.0035	3000	30000	120000	7" reel

■ Characteristics (Typical)



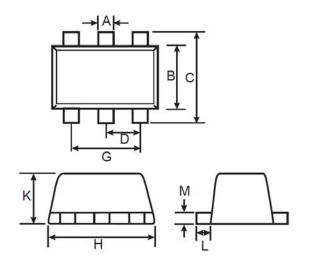






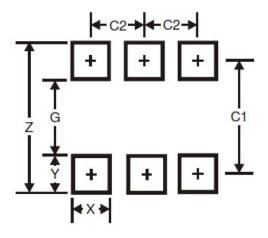


■ SOT-563 Package Outline Dimensions



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
Υ	0.5
C1	1.7
C2	0.5



MMBD4448V

Disclaimer

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