



# WILLAS



## SOT-563 Plastic-Encapsulate Diodes

### MMBD4448V

SWITCHING DIODE

#### FEATURES

- Fast switching speed
- High conductance
- **Pb-Free package is available**  
RoHS product for packing code suffix "G"  
Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

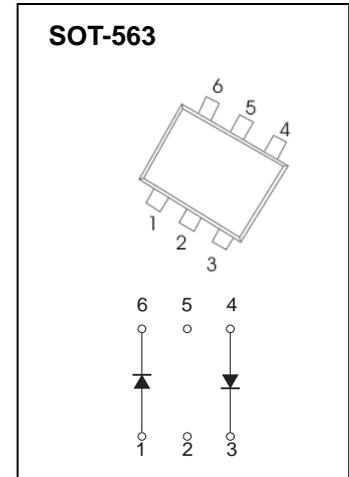
MARKING: KAL

Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	57	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	80	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	500	mA
Average Rectified Output Current	$I_O$	250	mA
Peak Forward Surge Current @t=1.0μs	$I_{FSM}$	4.0	A
@t=1.0s		1.5	
Power Dissipation	$P_d$	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Storage Temperature	$T_{STG}$	-55 ~+150	°C

Electrical Ratings @Ta=25°C

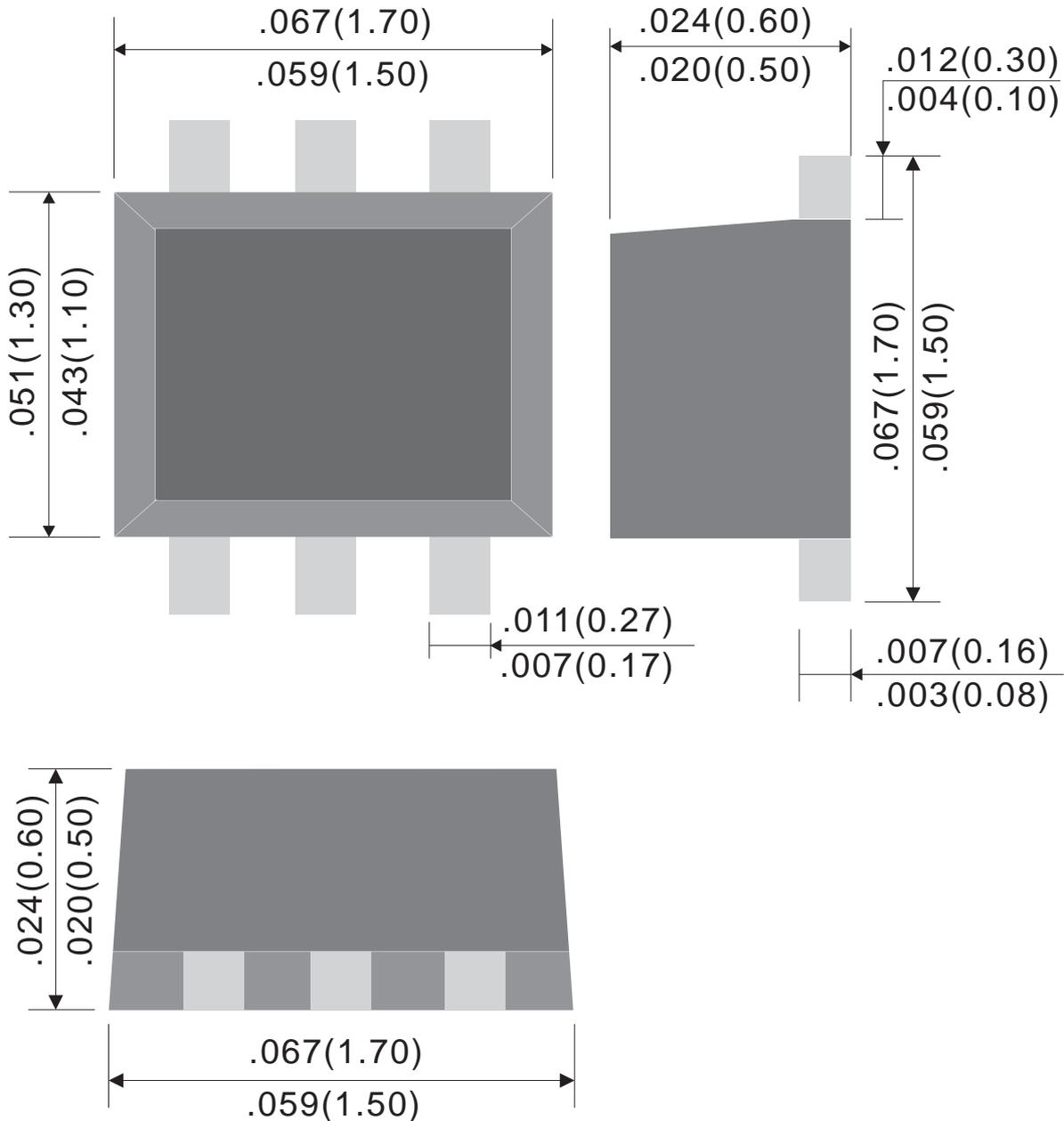
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	80			V	$I_R=2.5\mu A$
Forward voltage	$V_{F1}$	0.62		0.72	V	$I_F=5mA$
	$V_{F2}$			0.855	V	$I_F=10mA$
	$V_{F3}$			1.0	V	$I_F=100mA$
	$V_{F4}$			1.25	V	$I_F=150mA$
Reverse current	$I_{R1}$			0.1	μA	$V_R=70V$
	$I_{R2}$			25	nA	$V_R=20V$
Capacitance between terminals	$C_T$			3.5	pF	$V_R=6V, f=1MHz$
Reverse recovery time	$t_{rr}$			4	ns	$V_R=6V, I_F=5mA$





# Outline Drawing

# SOT-563



Dimensions in inches and (millimeters)