

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**

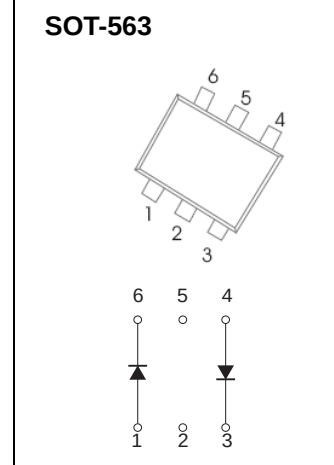
MARKING: KAL

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

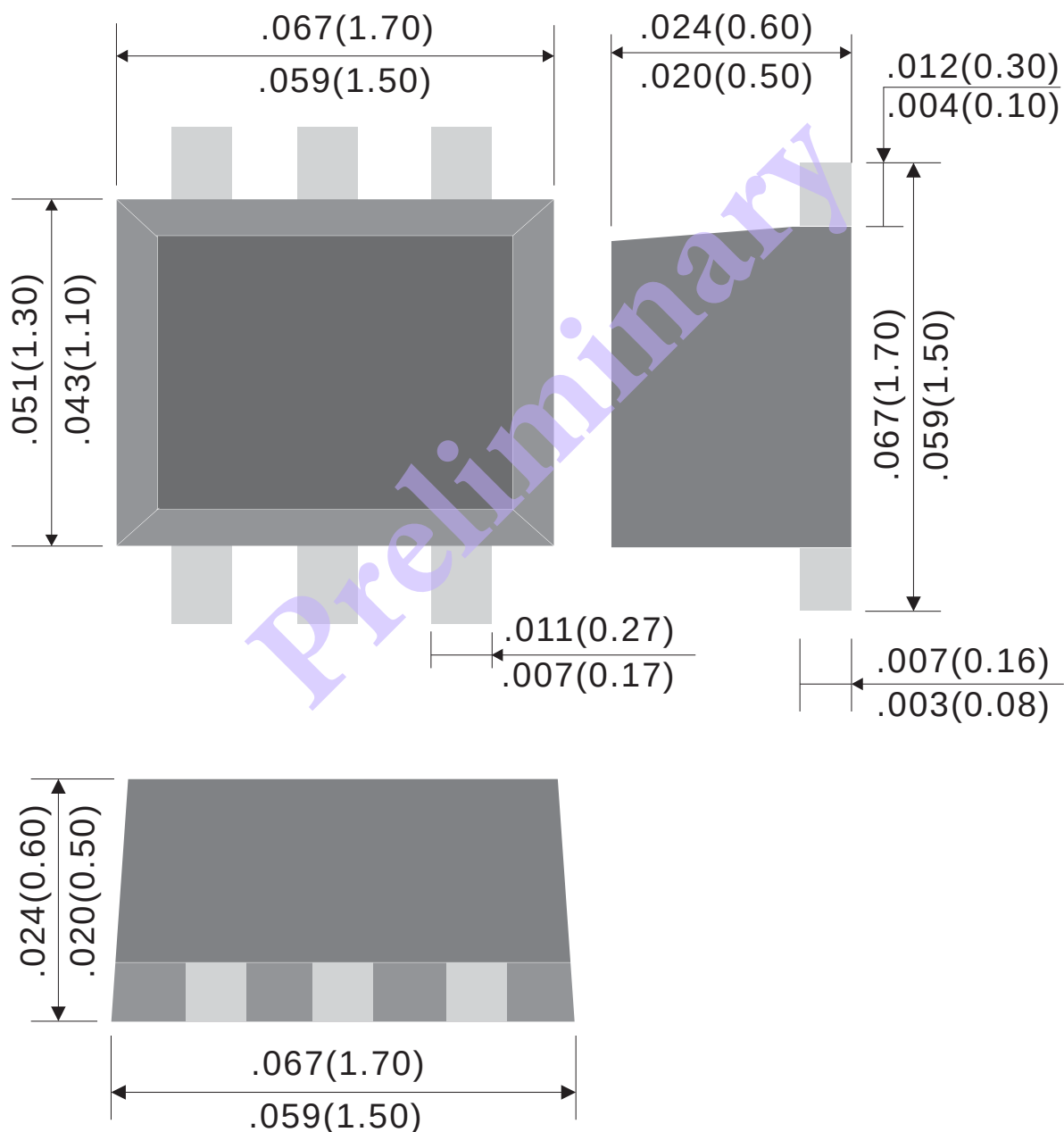
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	80			V	$I_R=2.5\mu A$
Forward voltage	V_{F1}	0.62		0.72	V	$I_F=5mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1.0	V	$I_F=100mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_{R1}			0.1	μA	$V_R=70V$
	I_{R2}			25	nA	$V_R=20V$
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)

Rev.A



Ordering Information:

Device PN	Packing
MMBD4448V-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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