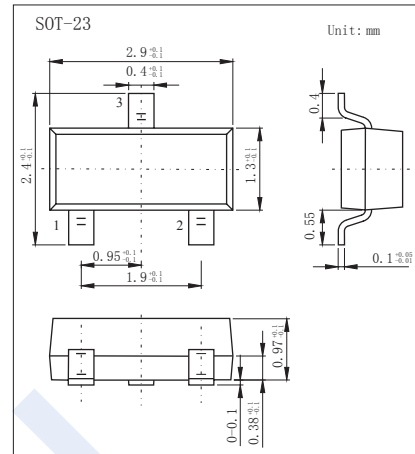


Switching Diodes

MMSD6005 (KMSD6005)

■ Features

- High conductance.
- Fast switching.
- Surface mount package ideally suited for automatic insertion.

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	600	V
RMS Voltage	V_{RMS}	420	
DC Blocking Voltage	V_{DC}	600	
Average Forward Current	I_{FAV}	0.5	A
Max continuous Forward Rectified Current	I_{max}	2	
Peak Forward Surge Current @ 8.3ms Single Half Sine-wave	I_{FSM}	12	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu\text{A}$	600			V
Forward voltage	V_F	$I_F = 250 \text{ mA}$			1.3	
Reverse voltage leakage current	I_R	$V_{RM} = V_{RRM}, T_a = 25^\circ\text{C}$			0.5	μA
		$V_{RM} = V_{RRM}, T_a = 125^\circ\text{C}$			2	
Reverse recovery time	t_{rr}	$I_F = 500 \text{ mA}, I_{rr} = 250 \text{ mA}, I_R = 1 \text{ A}$			500	ns

■ Marking

Marking	K65
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