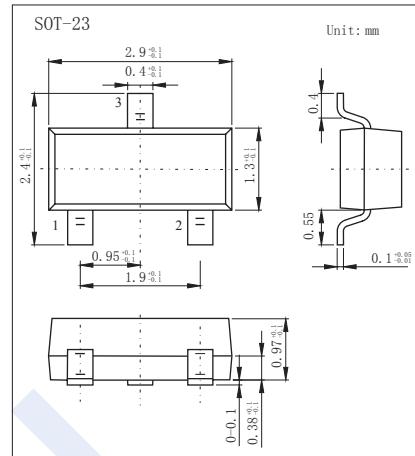


## Switching Diodes

### MMSD6005 (KMSD6005)

#### ■ Features

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



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V <sub>RM</sub>	600	V
RMS Voltage	V <sub>RMS</sub>	420	
DC Blocking Voltage	V <sub>DC</sub>	600	
Average Forward Current	I <sub>FAV</sub>	0.5	A
Max continuous Forward Rectified Current	I <sub>max</sub>	2	
Peak Forward Surge Current @ 8.3ms Single Half Sine-wave	I <sub>FSM</sub>	12	
Thermal Resistance Junction to Ambient	R <sub>θ JA</sub>	200	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 150	

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>R</sub>	I <sub>R</sub> = 100 uA	600	1.3	2	V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 250 mA				
Reverse voltage leakage current	I <sub>R</sub>	V <sub>RM</sub> =V <sub>RRM</sub> , Ta=25°C		0.5	2	uA
		V <sub>RM</sub> =V <sub>RRM</sub> , Ta=125°C				
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =500mA, I <sub>rr</sub> =250mA, I <sub>R</sub> =1A			500	ns

#### ■ Marking

Marking	K65
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