



# 1SS417TM

## HIGH SPEED SWITCHING APPLICATION

### FEATURES

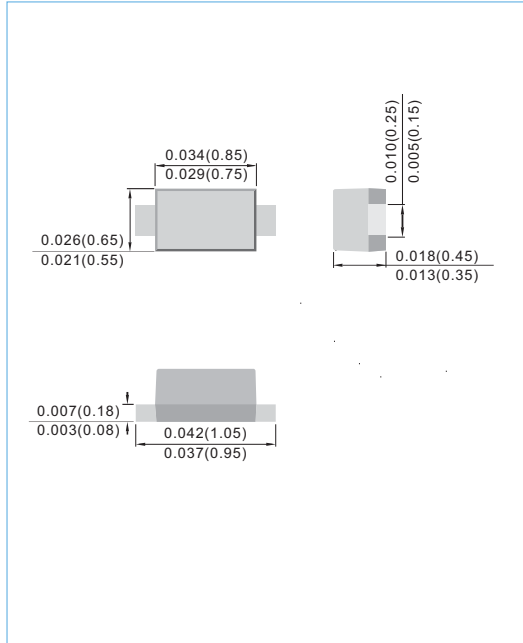
- Small package
- Low forward voltage :  $V_F(3)=0.56V(\text{typ.})$
- Low reverse current :  $I_R=5\mu A (\text{Max.})$
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### MECHANICAL DATA

- Case : SOD-923, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.00002 ounces, 0.0005 grams
- Marking : 4

### SOD-923

Unit : inch(mm)



### MAXIMUM RATINGS ( $T_A=25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$V_{RM}$	45	V
Reverse Voltage	$V_R$	40	V
Maximum (Peak) Forward Current	$I_{FSM}$	200	mA
Average Forward Current	$I_O$	100	mA
Surge Current (10ms)	$I_{FSM}$	1	A
Power dissipation	P	100	mW
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to + 125	$^\circ C$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	$V_{F1}$	$I_F = 1mA$	-	0.28	-	V
	$V_{F2}$	$I_F = 10mA$	-	0.36	-	
	$V_{F3}$	$I_F = 50mA$	-	0.56	0.62	
Reverse Current	$I_R$	$V_R = 40V$	-	-	5	$\mu A$
Junction Capacitance	$C_J$	$V_R = 0, f=1MHz$	-	15	-	pF