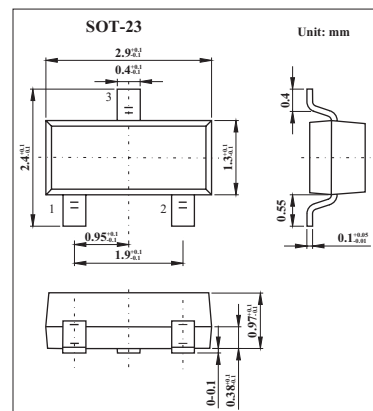


LOW VOLTAGE HIGH SPEED SWITCHING

1SS396

■ Features

- Small package
- Low forward voltage : $V_F = 0.23V$ (Typ).
- Low reverse current: $I_R = 5 \mu A$ (Max.)

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

Parameter	Symbol	Rating	Unit
Maximum(Peak) Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Maximum(Peak) Forward Current	I_{FM}	300*	mA
Average Rectified Current	I_O	100*	mA
Surge Current (10 ms)	I_{FSM}	1*	A
Power Dissipation	P	150	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to +125	$^\circ C$
Operating Temperature	T_{opr}	-40 to +100	$^\circ C$

* Unit Rating. Total Rating = Unit Rating $\times$ 0.7

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V_F	$I_F = 1 \text{ mA}$		0.28		V
		$I_F = 10 \text{ mA}$		0.36		
		$I_F = 100 \text{ mA}$		0.54	0.6	
Reverse current	I_R	$V_R = 40 \text{ V}$			5	μA
Total capacitance	C_T	$V_R = 0, f = 1.0 \text{ MHz}$		18	25	pF

■ Marking

Marking	T9
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