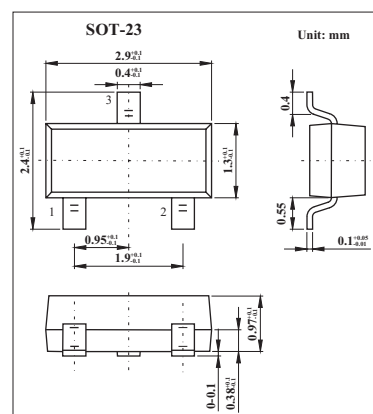


ULTRA HIGH SPEED SWITCHING APPLICATION

1SS344

■ Features

- Low forward voltage: $V_{F(3)} = 0.50V(\text{Typ})$.
- Fast reverse recovery time: $t_{rr} = 20\text{ns}(\text{Typ})$.
- High average forward current: $I_o = 0.5A(\text{Max})$.

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

Parameter	Symbol	Rating	Unit
Maximum(Peak) Reverse Voltage	V_{RM}	25	V
Reverse Voltage	V_R	20	V
Maximum(Peak) Forward Current	I_{FM}	1500	mA
Average Rectified Current	I_o	500	mA
Surge Current (10 ms)	I_{FSM}	5	A
Power Dissipation	P	200	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +125	$^\circ\text{C}$
Operating Temperature	T_{opr}	-40 to +100	$^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V_F	$I_F = 10 \text{ mA}$		0.30		V
		$I_F = 100 \text{ mA}$		0.38		
		$I_F = 500 \text{ mA}$		0.50	0.55	
Reverse current	I_R	$V_R = 30 \text{ V}$			20	μA
	I_R	$V_R = 80 \text{ V}$			100	
capacitance	C_t	$V_R = 0, f = 1.0 \text{ MHz}$		120		pF
Reverse recovery time	t_{rr}	$I_F = 30 \text{ mA}$		20		ns

■ Marking

Marking	H9
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