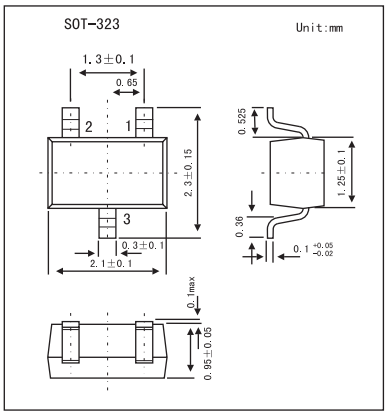
LOW VOLTAGE HIGH SPEED SWITCHING

1SS393



■ Features

- Low forward voltage:$V_{F(3)}$ = 0.54 V(Typ.)
- Low reverse current:I_R = 5 μA

■ Absolute Maximum Ratings Ta = 25℃

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 forward Current	I_O	100(*)	mA
Surge current (10 ms)	I_{FSM}	1(*)	A
Power dissipation	P	100	mW
Junction Temperature	T_j	125	℃
Storage Temperature range	T_{stg}	-55 to +125	℃
Operating temperature range	T_{opr}	-40 to +100	℃

(*) Unit rating.Total rating = Unit rating × 1.5

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F(1)}$	I_F = 1 mA		0.28		V
	$V_{F(2)}$	I_F = 10 mA		0.36		
	$V_{F(3)}$	I_F = 100 mA		0.54	0.6	
	I_R	V_R = 40 V			5	μA
Total capacitance	C_t	V_R = 0, f = 1.0 MHz		18	25	pF

■ Marking

Marking	R9