

ULTRA HIGH SPEED SWITCHING APPLICATION

1SS337

■ Features

- Small package
- Low forward voltage: $V_{F3} = 0.88V(\text{Typ})$.
- Fast reverse recovery time: $t_{rr} = 6ns(\text{Typ})$.
- Small total capacitance : $C_T = 1.6pF(\text{Typ})$.

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

Parameter	Symbol	Rating	Unit
Maximum(Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Maximum(Peak) Forward Current	I_{FM}	600*	mA
Average Rectified Current	I_o	200*	mA
Surge Current (10 ms)	I_{FSM}	6*	A
Power Dissipation	P	150	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

* Unit Rating.Total Rating = Unit Rating \times 1.5

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V_F	$I_F = 10 \text{ mA}$		0.66		V
		$I_F = 100 \text{ mA}$		0.8		
		$I_F = 200 \text{ mA}$		0.88	1.2	
Reverse current	I_R	$V_R = 30 \text{ V}$			0.25	μA
	I_R	$V_R = 80 \text{ V}$			0.5	
capacitance	C_t	$V_R = 0, f = 1.0 \text{ MHz}$		1.6		pF
Reverse recovery time	t_{rr}	$I_F = 30 \text{ mA}$		6	20	ns

■ Marking

Marking	J9
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