

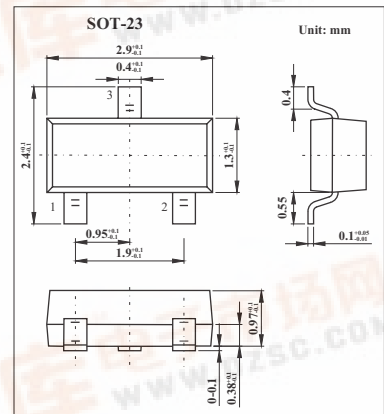
SMD Type Diodes

## ULTRA HIGH SPEED SWITCHING APPLICATION

### 1SS336

■ Features

- Small package
- Low forward voltage:  $V_{F3} = 0.84 \text{ V(Typ)}$ .
- Fast reverse recovery time:  $t_{rr} = 7\text{ns(Typ)}$ .
- Small total capacitance :  $C_T = 7\text{pF(Typ)}$ .



■ 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	$V_F$	$I_F = 10 \text{ mA}$		0.64		V
		$I_F = 100 \text{ mA}$		0.78		
		$I_F = 200 \text{ mA}$		0.84	1.2	
Reverse current	$I_R$	$V_R = 30 \text{ V}$			0.25	$\mu\text{A}$
	$I_R$	$V_R = 80 \text{ V}$			0.5	
capacitance	$C_t$	$V_R = 0, f = 1.0 \text{ MHz}$		7		pF
Reverse recovery time	$t_{rr}$	$I_F = 30 \text{ mA}$		7	20	ns

■ Marking

Marking	I9
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