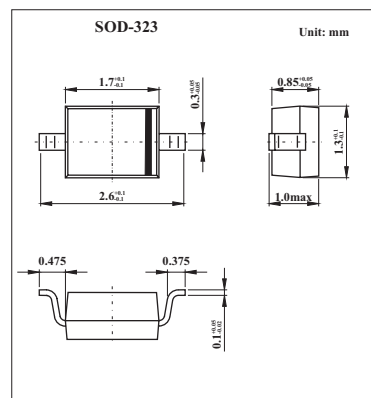


## LOW VOLTAGE HIGH SPEED SWITCHING

## 1SS357

## ■ Features

- Low forward voltage :  $V_F(3) = 0.54 \text{ V(Typ)}$
- Low resistance current :  $I_R = 5 \text{ } \mu\text{A (Max)}$
- Small package: : SC-70

■ 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	$I_{FM}$	200	mA
Average forward current	$I_O$	100	mA
Surge current (10 ms)	$I_{FSM}$	1	A
Power dissipation	$P$	200(*)	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 + 125	$^\circ\text{C}$

(\*) Mounted on a glass epoxy circuit board of 20 \* 20 mm, pad dimension of 4 \* 4 mm.

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

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

## ■ Marking

Marking	S3
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