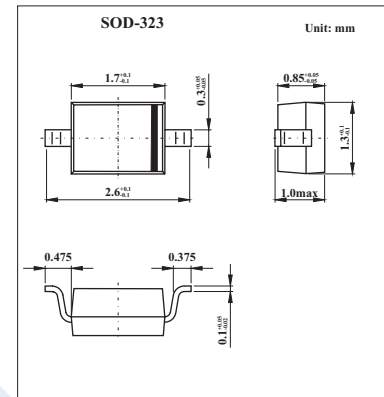


## High-Speed Switching Diode

### 1SS353

#### ■ Features

- Small surface mount type
- High switching speed. ( $t_{rr}=2\text{ns Typ.}$ )
- Good mountability, high surge resistance and reliability.



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

Parameter	Symbol	Rating	Unit
Peak reverse voltage	$V_{RM}$	90	V
DC reverse voltage	$V_R$	80	V
Average forward current	$I_O$	100	mA
Peak forward current	$I_{FM}$	255	mA
Surge current (1s)	$I_{surge}$	400	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to 125	$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ.	Max	Unit
Forward voltage	$V_F$	$I_F=100\text{mA}$		0.94	1.2	V
Reverse current	$I_R$	$V_R=80\text{V}$		0.03	0.5	$\mu\text{A}$
Total Capacitance	$C_T$	$V_R=0.5\text{V}, f=1\text{MHz}$		0.72	3.0	pF
Reverse recovery time	$t_{rr}$	$V_R=6\text{V}, I_F=10\text{mA}, R_L=100\ \Omega$		1.1	4	ns

#### ■ Marking

Marking	C
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