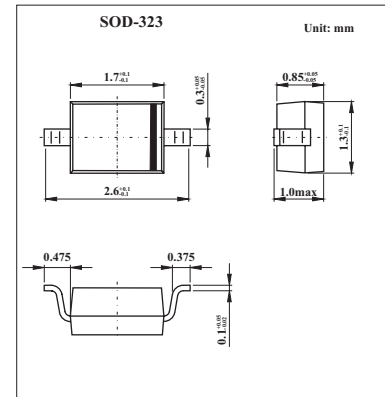


## ULTRA HIGH SPEED SWITCHING APPLICATION DIODE

## 1SS352

## ■ Features

- Small Package
- Low forward voltage :  $V_{F(3)} = 0.98$  (Typ)
- Fast reverse recovery time :  $t_{rr} = 1.6\text{ns}$  (Typ)
- Small total capacitance :  $C_T = 0.5$  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
Forward current	$I_{FM}$	200	mA
maximum (peak) voltage current	$I_o$	100	mA
Surge current ( $t=1\text{s}$ )	$I_{FSM}$	1	A
Power dissipation	$P$	200(*)	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to+ 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	Typ.	Max	Unit
Forward Voltage	$V_F$	$I_F = 1$ mA	0.62		V
		$I_F = 10$ mA	0.75		
		$I_F = 100$ mA	0.98	1.2	
Reverse Current	$I_R$	$V_R = 30$ V;		0.1	$\mu\text{A}$
		$V_R = 80$ V;		0.5	
Total Capacitance	$C_T$	$V_R = 0, f = 1$ MHz	0.5	3	pF
Reverse Recovery Time	$t_{rr}$	$I_F = 10$ mA;	1.6	4	ns

## ■ Marking

Marking	C1
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