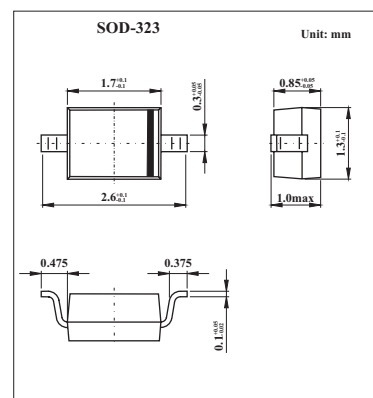


ULTRA HIGH SPEED SWITCHING APPLICATION DIODE

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 : $C_T = 0.5\text{ pF}$ (Typ)

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

Paremeter	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 $T_a = 25^\circ\text{C}$

Paremeter	Symbol	Test Conditions	Typ.	Max	Unit
Forward Volatge	V_F	$I_F = 1\text{ mA}$	0.62		V
		$I_F = 10\text{ mA}$	0.75		
		$I_F = 100\text{ mA}$	0.98	1.2	
Reverse Current	I_R	$V_R = 30\text{ V};$		0.1	$\mu\text{ A}$
		$V_R = 80\text{ V};$		0.5	
Total Capacitance	C_T	$V_R = 0, f = 1\text{ MHz}$	0.5	3	pF
Reverse Recovery Time	t_{rr}	$I_F = 10\text{ mA};$	1.6	4	ns

■ Marking

Marking	C1
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