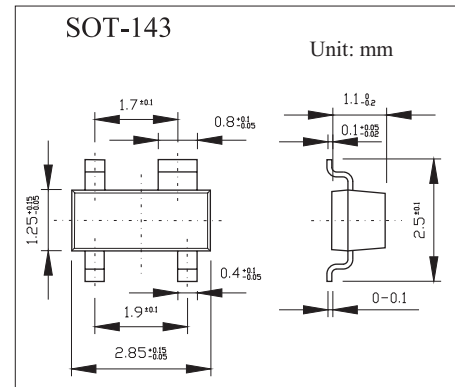


# 1SS272

## ■ Features

- Low Forward Voltage:  $V_{F(3)} = 0.92$  V(Typ.)
- Fast Reverse Recovery Time:  $t_{rr} = 1.6$  ns (Typ.)
- Small Total Capacitance:  $C_T = 0.9$  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	$I_{FM}$	300 <sup>(1)</sup>	mA
Average forward current	$I_o$	100 <sup>(1)</sup>	mA
Surge current (10 ms)	$I_{FSM}$	2 <sup>(1)</sup>	A
Power dissipation	$P$	150	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

Note

1. Unit Rating. Total Rating = Unit Rating  $\times$  1.5

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F(1)}$	$I_F = 1$ mA		0.61		V
	$V_{F(2)}$	$I_F = 10$ mA		0.74		
	$V_{F(3)}$	$I_F = 100$ mA		0.92	1.20	
Reverse current	$I_{R(1)}$	$V_R = 30$ V			0.1	$\mu\text{A}$
	$I_{R(2)}$	$V_R = 80$ V			0.5	
Total capacitance	$C_T$	$V_R = 0$ V, $f = 1$ MHz		0.9	2.0	pF
Reverse recovery time	$t_{rs}$	$I_F = 10$ mA		1.6	4	ns

## ■ Marking

Marking	A1
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