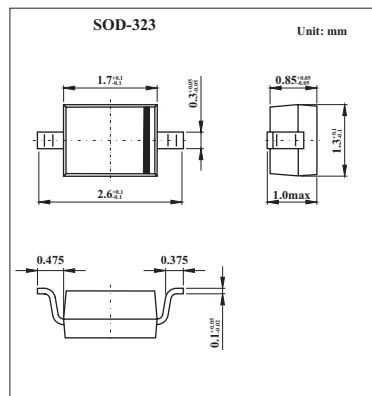


# 1SV245

### ■ Features

- High Capacitance Ratio:  $C_{2V}/C_{25V} = 5.7$ (Typ.)
- Low Series Resistance:  $r_s = 1.2 \Omega$  (Typ.)
- Excellent C-V Characteristics, and Small Tracking Error.



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

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Peak Reverse Voltage	$V_{RM}$	35( $R_L = 10 \text{ K } \Omega$ )	V
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_R$	$I_R = 1 \mu\text{A}$	30			V
Reverse Current	$I_R$	$V_R = 28 \text{ V}$			10	nA
Capacitance	$C_{2V}$	$f = 1 \text{ MHz}; V_R = 2 \text{ V}$	3.31		4.55	pF
	$C_{25V}$	$f = 1 \text{ MHz}; V_R = 25 \text{ V}$	0.61		0.77	
Capacitance Ratio	$C_{2V}/C_{25V}$		5	5.7	6.5	
Series Resistance	$r_s$	$V_R = 1 \text{ V}, f = 470 \text{ MHz}$		1.2	2.0	$\Omega$

Note :

Unites are compounded in one package and are mathed to 6.0%

$$\frac{C(\text{Max.})-C(\text{Min.})}{C(\text{Min.})} \leq 0.06$$

( $V_R = 2 \sim 25 \text{ V}$ )

### ■ Marking

Marking	T3
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