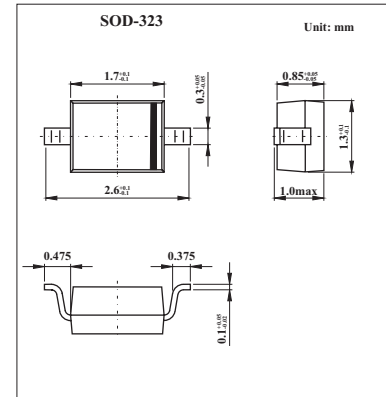


## Silicon Epitaxial Planar Diode

## KDV214

## ■ Features

- High Capacitance Ratio :  $C_{2V}/C_{25V}=6.5(\text{Typ.})$
- Low Series Resistance :  $r_s=0.4 \Omega (\text{Typ.})$
- Excellent C-V Characteristics, and Small Tracking Error.
- Useful for Small Size Tuner.

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

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	32	V
Peak Reverse Voltage	$V_{RM}$	35 ( $R_L=10K \Omega$ )	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	$C_{2V}$	$f = 1 \text{MHz}; V_R = 2 \text{V}$	14.16		16.25	pF
	$C_{25V}$	$f = 1 \text{MHz}; V_R = 25 \text{V}$	2.11		2.43	
Capacitance Ratio	$C_{2V}/C_{25V}$		5.9	6.5	7.15	
Series Resistance	$r_s$	$V_R = 5 \text{V}, f = 470 \text{MHz}$		0.4	0.55	$\Omega$

Note :

Available in matched group for capacitance to 2.5%.

$$\frac{C(\text{Max.})-C(\text{Min.})}{C(\text{Min.})} \leq 0.025$$

## ■ Marking

Marking	UO
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