



KDS114E

SWITCHING DIODE SILICON

Application

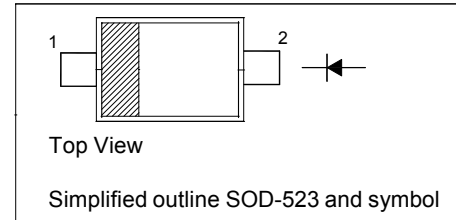
- Tuner Band Switch

Features

- Small total capacitance: $C_T = 1.3 \text{ Pf (Max)}$
- Low series resistance: $r_f \leq 0.6 \Omega$
- package: SOD-523

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

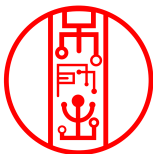


Maximum ratings

Parameter	Symbol	Rating		Unit
		Min	Max	
Assignment Temperature Range	T_{amb}	-55	100	$^{\circ}\text{C}$
Storage Temperature Range	T_{atg}	-55	125	$^{\circ}\text{C}$
Maximum Reverse voltage	V_{RM}		30	V
Junction Temperature	T_j		125	$^{\circ}\text{C}$
Forward voltage($I_F=20\text{mA}$)	V_F		1	V

Electrical Characteristics(at $T_{amb}=25^{\circ}\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F=2\text{mA}$			0.85	V
Diode capacitance	C_T	$V_R=6\text{V}$		0.8	1.3	PF
Reverse Current	I_R	$V_R=20\text{V}$			10	nA
Forward Voltage	V_F	$I_F=20\text{mA}$			1	V
series resistance	R_F	$F=100\text{MHz}, I_F=10\text{mA}$		0.6		Ω

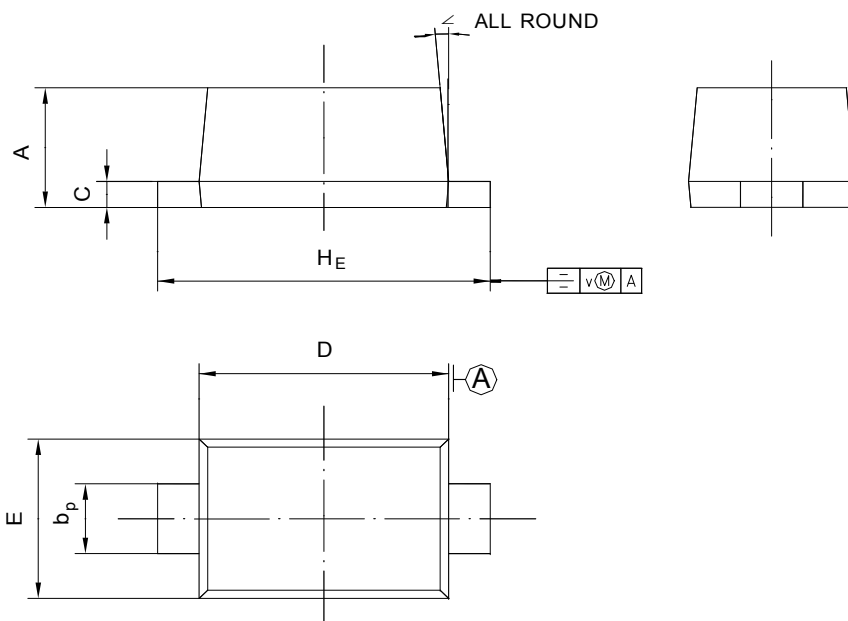


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PACKAGE OUTLINE

SOD-523

Plastic surface mounted package; 2 leads



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°