KDS114WT-AH

Silicon Epitaxial Planar Band Switch Diode

Features

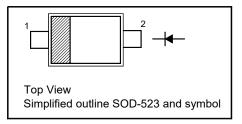
- AEC-Q101 Qualified
- Small package
- · Small total capacitance
- Low series resistance
- Low leakage current
- Halogen and Antimony Free(HAF), RoHS compliant

Application

• For VHF tuner band switch applications

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Absolute Maximum Ratings (Ta = 25°C)

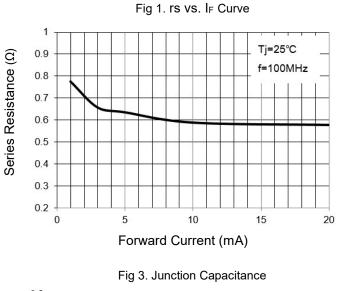
Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	35	V
Forward Current	l _F	100	mA
Junction Temperature	TJ	125	°C
Storage Temperature Range	T _{stg}	- 55 to + 125	°C

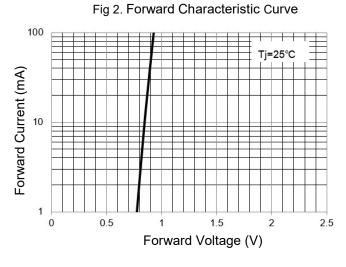
Characteristics at T_a = 25°C

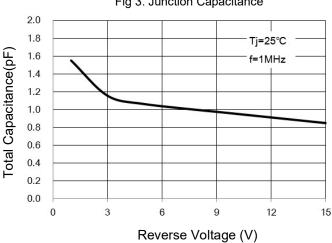
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 2 mA	VF	ı	0.85	V
Reverse Current at $V_R = 15 \text{ V}$	I _R	-	100	nA
Reverse Voltage at I _R = 10 μA	V _R	35	-	V
Total Capacitance at $V_R = 6 \text{ V}$, $f = 1 \text{ MHz}$	Ст	-	1.2	pF
Series Resistance at I _F = 2 mA, f = 100 MHz	rs	-	0.9	Ω

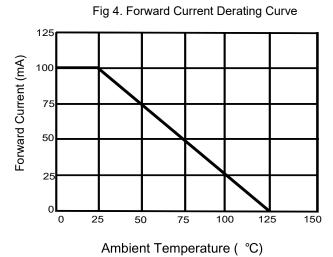


Electrical Characteristics Curves







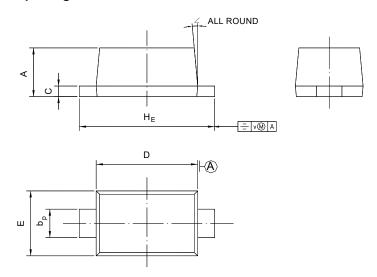


(C)

PACKAGE OUTLINE

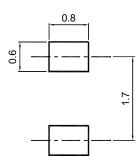
Plastic surface mounted package

SOD-523



UNIT	Α	b _p	С	D	Е	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°	

Recommended Soldering Footprint



Packing information

	Tape Width	Pitch		Reel	Size		
Package	(mm)	mm	inch	mm inch		Per Reel Packing Quantity	
SOD-523	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000	

Marking information

" W7 " = Part No.

" III " = Cathode line

" • "= HAF (Halogen and Antimony Free(HAF)

Font type: Arial



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