KDS114WT

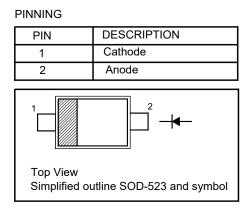
Silicon Epitaxial Planar Band Switch Diode

Features

- Small package
- Small total capacitance
- Low series resistance
- · Low leakage current

Application

• For VHF tuner band switch applications



Absolute Maximum Ratings (T_a = 25°C)

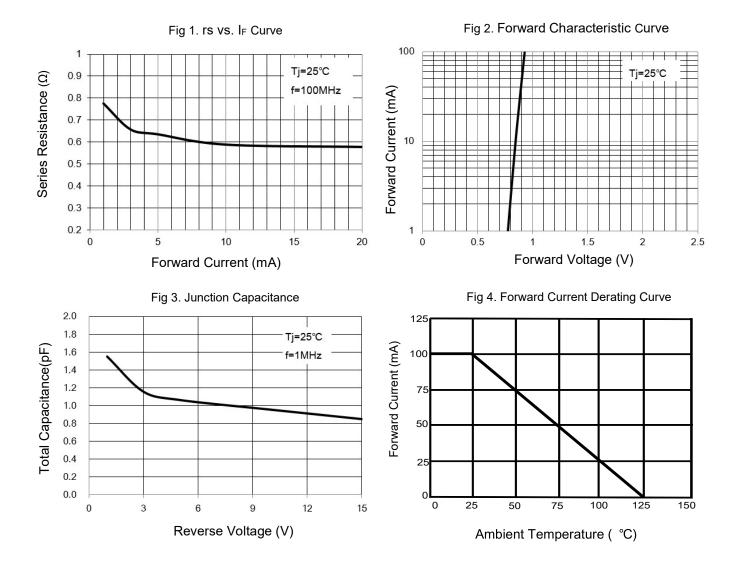
Parameter	Symbol	Value	Unit
Reverse Voltage	VR	35	V
Forward Current	lF	100	mA
Junction Temperature	TJ	125	°C
Storage Temperature Range	T _{stg}	- 55 to + 125	°C

Characteristics at Ta = 25°C

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



Electrical Characteristics Curves



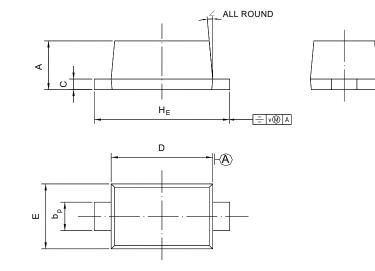


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PACKAGE OUTLINE

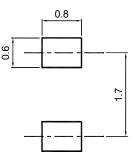
Plastic surface mounted package

SOD-523



U	NIT	А	bp	С	D	E	Η _E	V	Z
r	nm	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

Package	Tape Width	Pitch		Reel	Size	
	(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 Font type: Arial



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