



Surface Mount Switching Diodes

Voltage 100 V Power 175 mW

Features

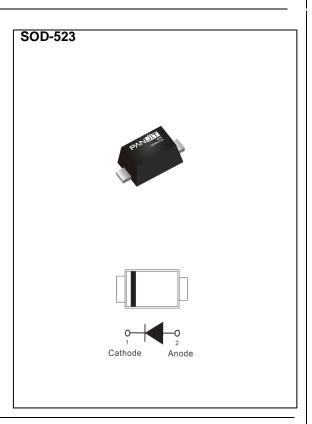
- Fast switching speed.
- Very low leakage current
- Low capacitance
- Surface mount package Ideally Suited for Automatic insertion
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: SOD-523 Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0014 grams



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Reverse Voltage	V_R	100	V	
Peak Reverse Voltage		V_{RM}	100	V
Maximum Average Forward Current	I _{F(AV)}	225	mA	
Non-repetitive Peak Forward Current	tp = 0.001 ms	I _{FSM}	4	А
Power Dissipation ^(Note 1)	P _D	175	mW	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0$	Сл	1	pF	
Typical Thermal Resistance(Note 1)	Reja	710	°C/W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 100 mA, T _J = 25 °C	-	-	1.2	V
Reverse Current	I _R	V _R = 80 V, T _J = 25 °C	ı	-	0.1	uA
Maximum Reverse Recovery Time ^(Note 2)	T_RR		-	-	4	ns

NOTES:

- 1. Mounted on a FR4, single-sided copper, with 114 x 76mm PCB.
- 2. Test Condition : I_F=10mA to I_R=10mA, Recovery to 1mA, R_L=100 Ω .





TYPICAL CHARACTERISTIC CURVES

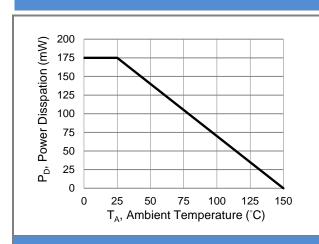


Fig.1 Power Derating Curve

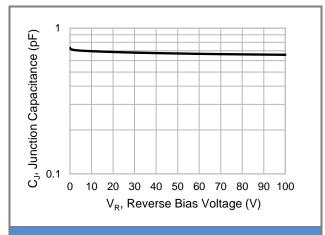


Fig.2 Typical Junction Capacitance

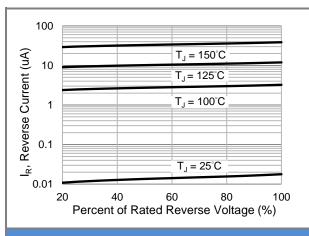


Fig.3 Typical Reverse Characteristics

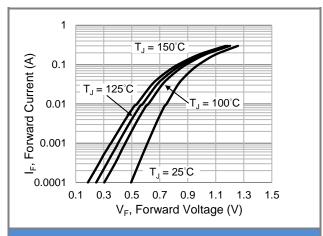


Fig.4 Typical Forward Characteristics

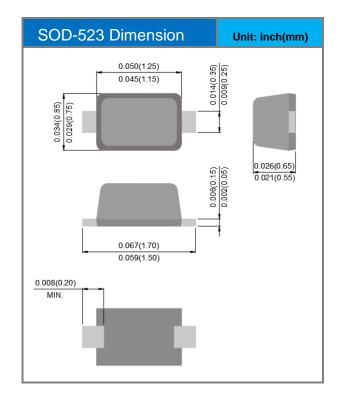


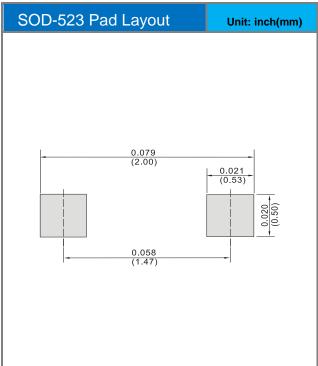


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
1SS400-AU_R1_000A1	SOD-523	5K pcs / 7" reel	14	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout









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