Common Anode Silicon Dual Switching Diodes

DAP222M3T5G

These Common Anode Silicon Epitaxial Planar Dual Diodes are designed for use in ultra high speed switching applications. The DAP222 device is housed in the SOT-723 package which is designed for low power surface mount applications, where board space is at a premium.

Features

- Fast t_{rr}
- Low C_D
- Available in 4 mm Tape and Reel
- This is a Pb–Free Device

MAXIMUM RATINGS ($T_A = 25^{\circ}C$)

Rating	Symbol	Value	Unit
Reverse Voltage	V _R	80	V
Peak Reverse Voltage	V _{RM}	80	V
Forward Current	١ _F	100	mA

THERMAL CHARACTERISTICS

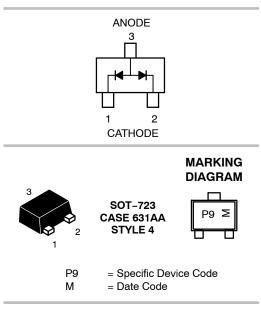
Rating	Symbol	Max	Unit
Power Dissipation	PD	260	mW
Junction Temperature	Т _Ј	150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected. 1. $t = 1.0 \ \mu$ S.



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ORDERING INFORMATION

Device	Package	Shipping [†]	
DAP222M3T5G	SOT-723 (Pb-Free)	8000/Tape & Reel	

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

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ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$)

Characteristic	Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Current	I _R	V _R = 70 V	-	0.1	μΑ
Forward Voltage	V _F	I _F = 100 mA	-	1.2	V
Reverse Breakdown Voltage	V _R	I _R = 100 μA	80	-	V
Diode Capacitance	CD	V _R = 6.0 V, f = 1.0 MHz	-	3.5	pF
Reverse Recovery Time	t _{rr} (Note 2)	I_{F} = 5.0 mA, V_{R} = 6.0 V, R_{L} = 100 Ω , I_{rr} = 0.1 I_{R}	-	4.0	ns

2. t_{rr} Test Circuit for DAP222 in Figure 4.

TYPICAL ELECTRICAL CHARACTERISTICS

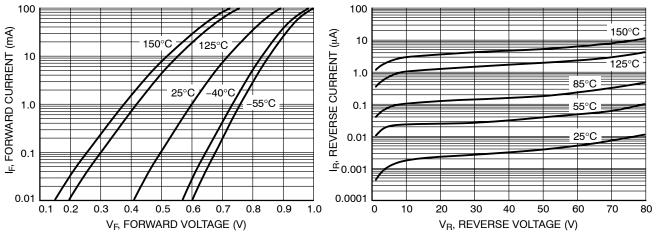


Figure 1. Forward Voltage

Figure 2. Reverse Current

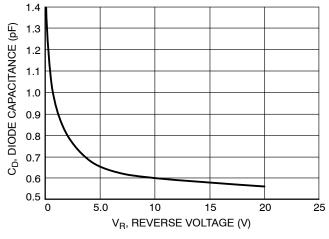
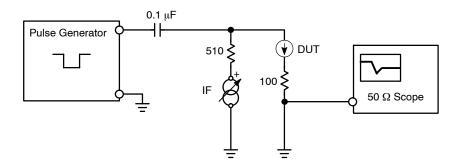
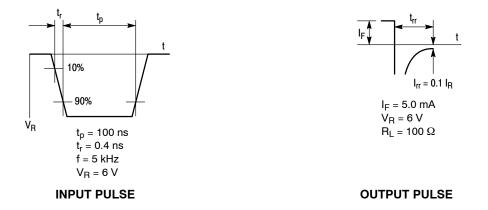


Figure 3. Diode Capacitance

DAP222M3T5G













3X 0.52 - - 0.36 DIMENSIONS: MILLIMETERS

*For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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 DESCRIPTION:
 SOT-723
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