

SURFACE MOUNT FAST SWITCHING DIODE

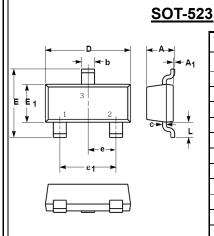
REVERSE VOLTAGE – 80 Volts FORWARD CURRENT – 0.1 Ampere

FEATURES

- · Fast switching speed
- Ideally suited for automatic insertion
- For general purpose switching applications

MECHANICAL DATA

- Case: SOT-523 Plastic
- Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant



SOT-523			
Dim.	Min.	Max.	
Α	0.70	0.90	
A1	0.00	0.10	
b	0.25	0.325	
С	0.10	0.20	
D	1.50	1.70	
Е	1.45	1.75	
E1	0.75	0.85	
е	0.50 Typ.		
e1	0.90	1.10	
L	0.55 Ref.		
Dimensions in millimeter			

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic		Symbol	DAN222	Units
Peak Reverse Voltage		V_{RM}	80	V
DC Blocking Voltage		V _R	80	V
Forward Continuous Current		I _{FM}	300	mA
Average Rectified Output Curren	t	I ₀	100	mA
Peak Forward Surge Current	@t=1.0us	I _{FSM}	2	А
Power Dissipation		P _D	150	mW
Operating Temperature Range		T _J	150	$^{\circ}$ C
Storage Temperature Range		T _{STG}	-55~+150	$^{\circ}\!\mathbb{C}$

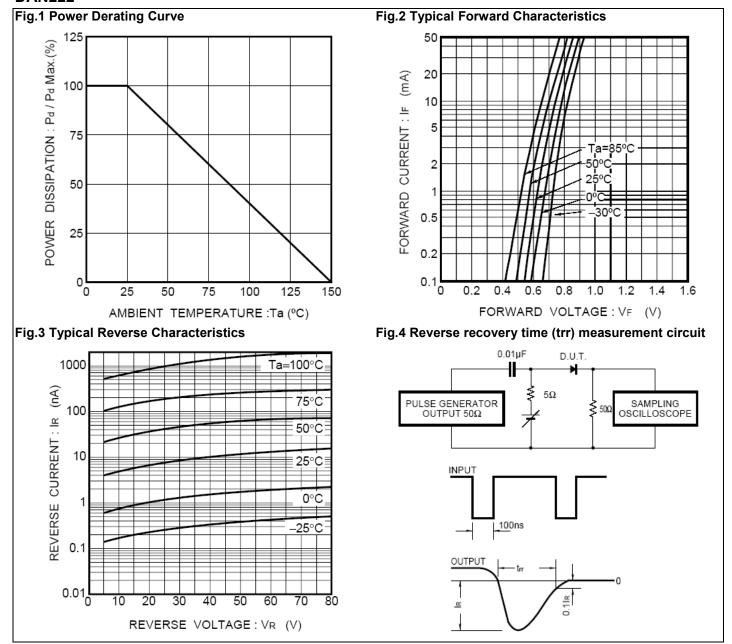
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	I _R = 100uA	V_{BR}	80			V
Maximum Forward Voltage	I _F = 100mA	V _F			1.2	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 70V	I _R			0.1	uA
Typical Diode Capacitance	V _R =0V,f=1MHz	C _D			3.5	pF
Reverse Recovery time	V_R =6V, I_F =5mA	trr			4	ns

REV. 2, Oct-2010, KSYR56

RATING AND CHARACTERISTIC CURVES DAN222





Device Marking:

Device P/N	Marking code	Equivalent Circuit Diagram	
DAN222	N	3 0 01	



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