

## SURFACE MOUNT FAST SWITCHING DIODE

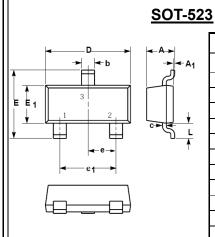
# REVERSE VOLTAGE – 80 Volts FORWARD CURRENT – 0.1 Ampere

#### **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** @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteris	tic	Symbol	DAP222	Units
Peak Reverse Voltage		$V_{RM}$	80	V
DC Blocking Voltage		V <sub>R</sub>	80	V
Forward Continuous Current		I <sub>FM</sub>	300	mA
Average Rectified Output Curren	t	Io	100	mA
Peak Forward Surge Current	@t=1.0us	I <sub>FSM</sub>	2	Α
Power Dissipation		P <sub>D</sub>	150	mW
Operating Temperature Range		T <sub>J</sub>	150	°C
Storage Temperature Range		T <sub>STG</sub>	-55~+150	°C

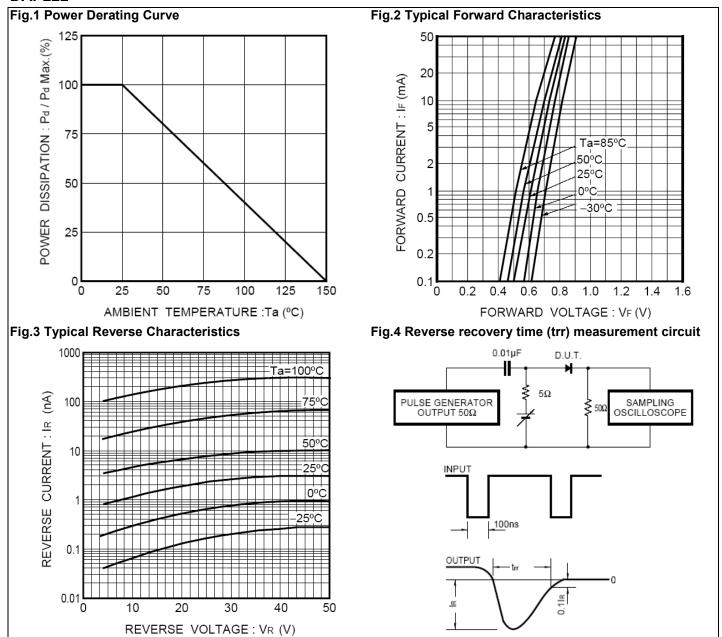
### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

REV. 2, Oct-2010, KSYR58

## RATING AND CHARACTERISTIC CURVES DAP222





### **Device Marking:**

Device P/N	Marking code	Equivalent Circuit Diagram
DAP222	Р	3 0 0 1



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