

**SURFACE MOUNT
FAST SWITCHING DIODE**

**REVERSE VOLTAGE – 80 Volts
FORWARD CURRENT – 0.1 Ampere**

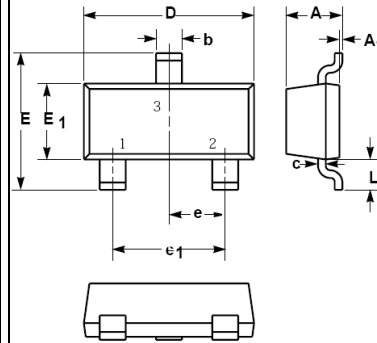
FEATURES

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

MECHANICAL DATA

- Case: SOT-323 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-323



SOT-323		
Dim.	Min.	Max.
A	0.90	1.10
A1	0.00	0.10
b	0.20	0.40
c	0.08	0.15
D	2.00	2.20
E	2.15	2.45
E1	1.15	1.35
e	0.65 Typ.	
e1	1.20	1.40
L	0.525 Ref.	
Dimensions in millimeter		

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

Characteristic	Symbol	DAP202U	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 Current	I _O	100	mA
Non-Repetitive Peak Forward Surge Current @t=1.0us	I _{FSM}	300	mA
Power Dissipation	P _D	200	mW
Operating Temperature Range	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Typ.	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 =6V, f=1MHz	C _D	--	--	3.5	pF
Reverse Recovery time	V _R =6V, I _F =5mA	trr	--	--	4	ns

REV. 2, Oct-2010, KSYR57

**RATING AND CHARACTERISTIC CURVES
DAP202U**



Fig.1 Power Derating Curve

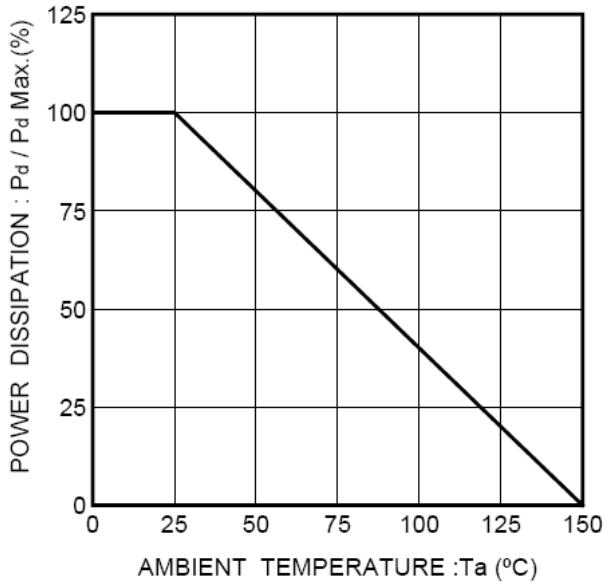


Fig.2 Typical Forward Characteristics

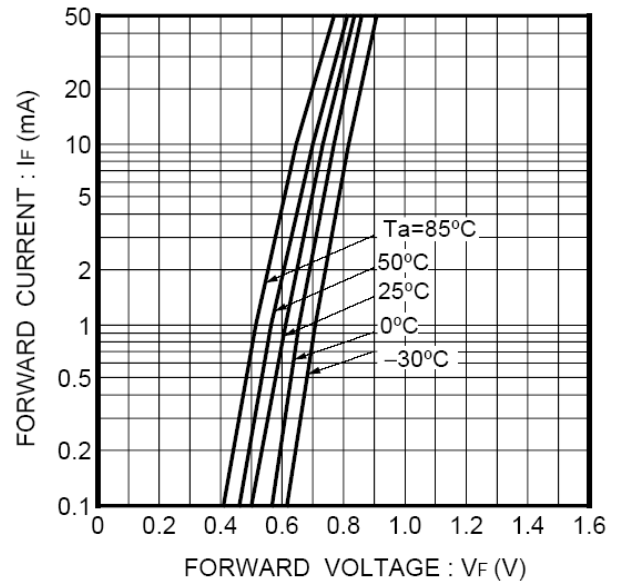


Fig.3 Typical Reverse Characteristics

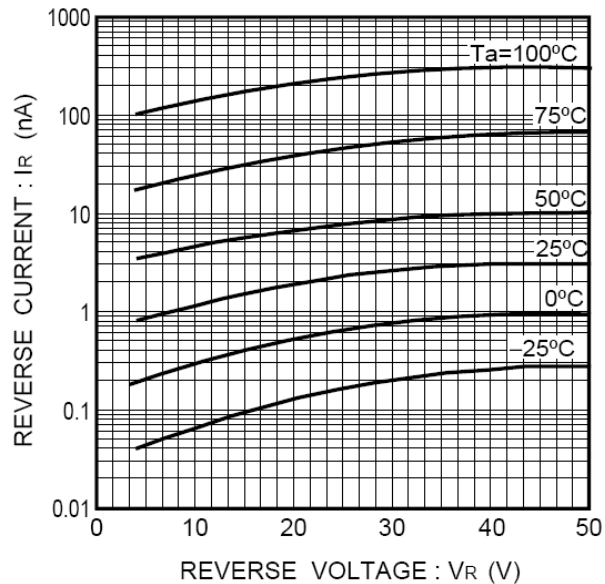
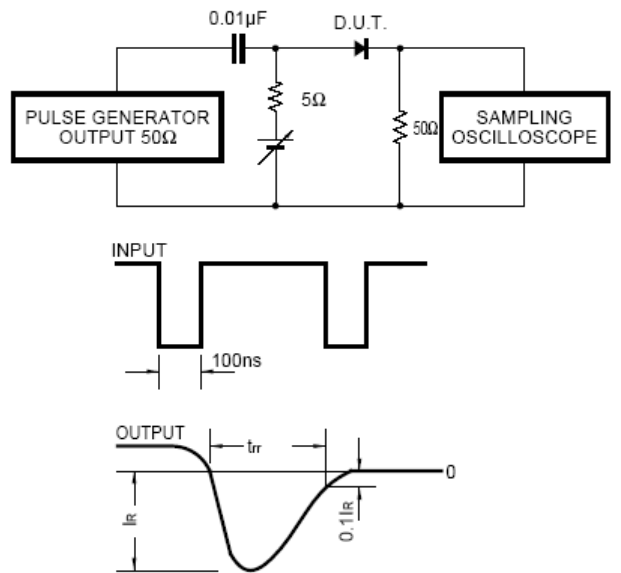


Fig.4 Reverse recovery time (trr) measurement circuit



Device Marking :

Device P/N	Marking code	Equivalent Circuit Diagram
DAP202U	P	

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