WILLAS RoHS COMPLIANT

SOT-323 Plastic-Encapsulate Diodes

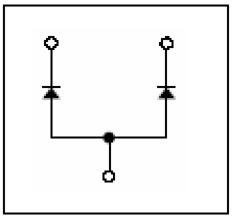
DAP202U

SWITCHING DIODE

FEATURES:

- Four types of packaging are available
- High speed. (trr=1.5ns Typ.)
- Suitable for high packing density layout
- High reliability.
- **Pb-Free package is available**
  RoHS product for packing code suffix ”G”
  Halogen free product for packing code suffix “H”
- **Moisture Sensitivity Level 1**

SOT-323



MARKING: P

Maximum Ratings @T_A=25 ℃

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	80	V
DC reverse voltage	V_R	80	V
Maximum (peak) forward current	I_{FM}	300	mA
Average forward current	I_O	100	mA
Power dissipation	P_D	200	mW
Junction temperature	T_j	150	℃
Storage temperature	T_{stg}	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	I_R= 100μA	80		V
Reverse voltage leakage current	I_R	V_R=70V		0.1	μA
Forward voltage	V_F	I_F=100mA		1.2	V
Diode capacitance	C_D	V_R=6V, f=1MHz		3.5	pF
Reverse recovery time	t_{rr}	V_R=6V, I_F=5mA		4	ns

Typical Characteristics

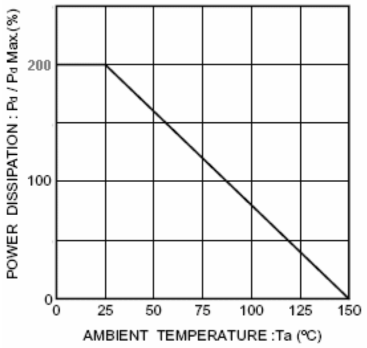


Fig.1 Power attenuation curve

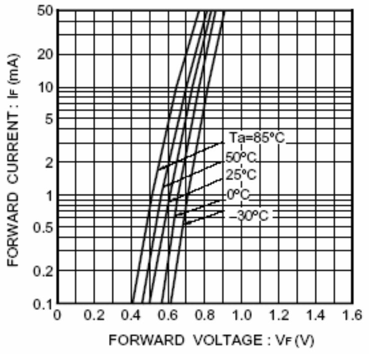


Fig.2 Forward characteristics
(P Type)

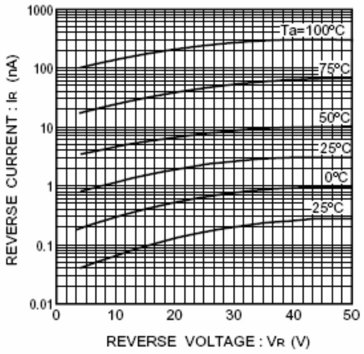


Fig.3 Reverse characteristics
(P Type)

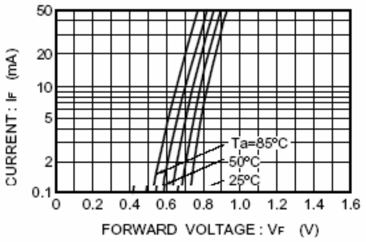


Fig.4 Forward characteristics
(N Type)

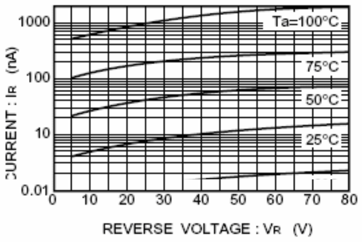


Fig.5 Reverse characteristics
(N Type)

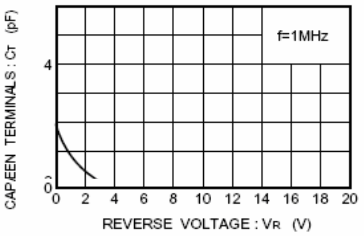


Fig.6 Capacitance between
terminals characteristics

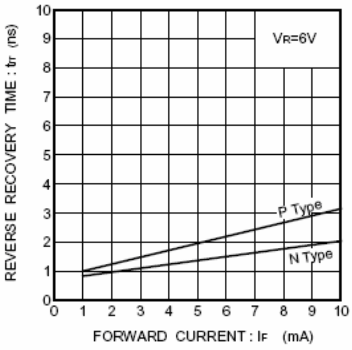


Fig.7 Reverse recovery time

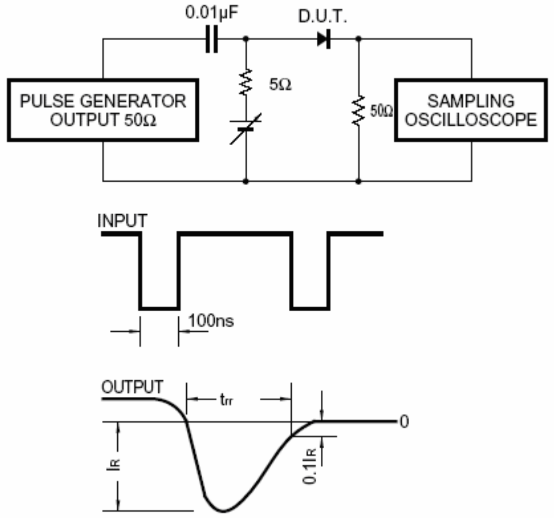
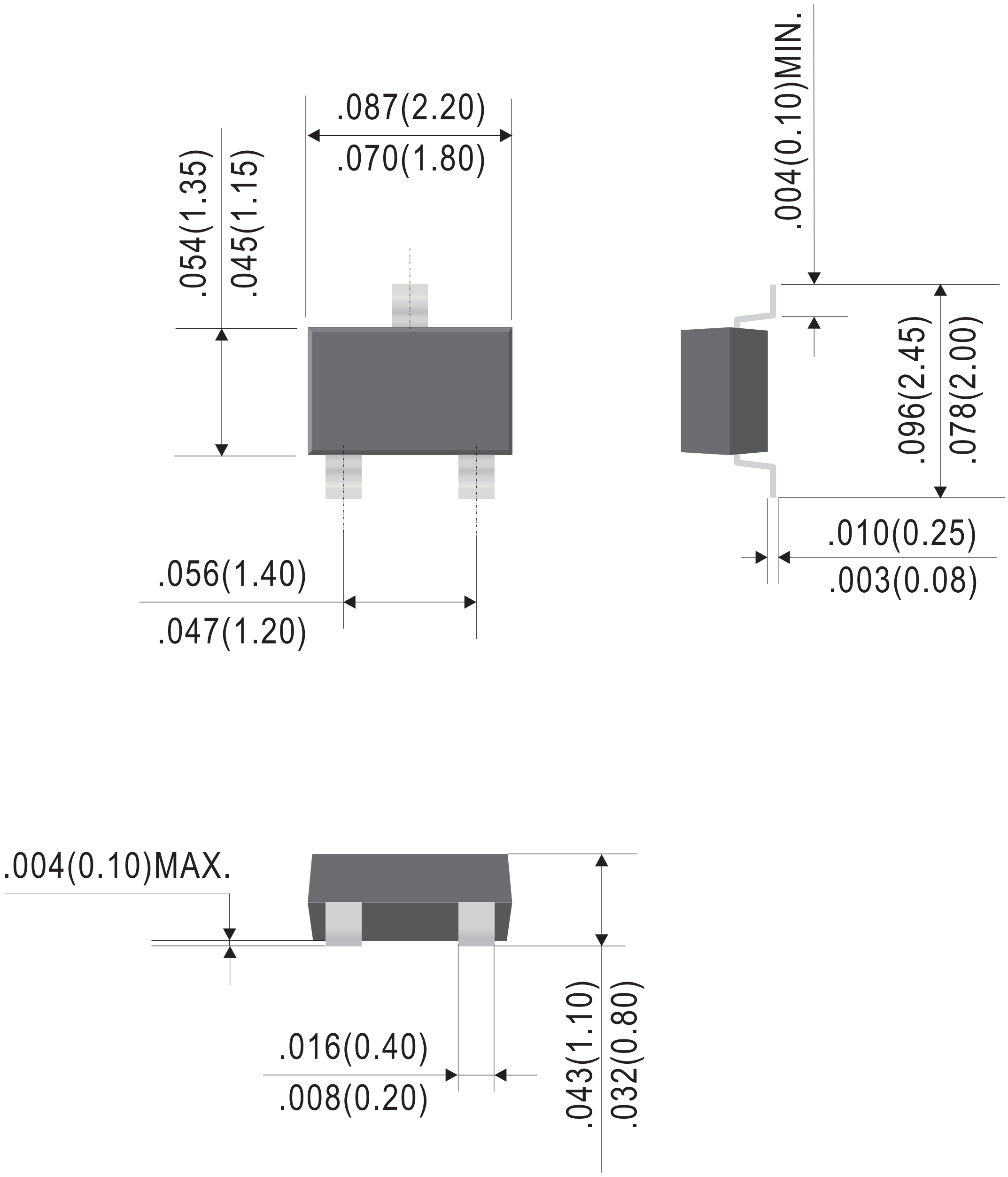


Fig.8 Reverse recovery time (trr) measurement circuit

Outline Drawing SOT-323



Dimensions in inches and (millimeters)