Ultra Swtiching Diode

SOD-323F



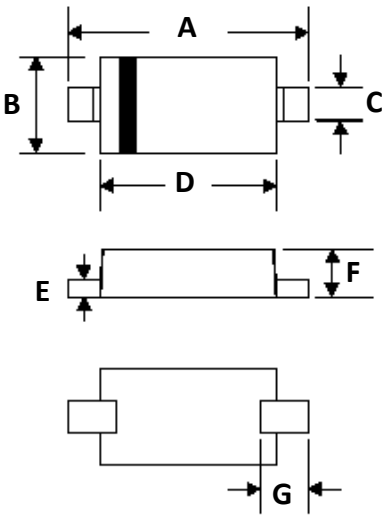
SOD-323 Flat LEAD



ELECTRICAL SYMBOL

Features

- Ultra high speed switching application
- Low Forward Voltage
  Fast Reverse Rocovery Time
  Small Total Capacitance



Dim	Millimeters
A	2.65±0.20
B	1.30±0.10
C	0.30±0.05
D	1.70±0.10
E	0.10±0.02
F	0.80±0.15
G	>0.25

Mechanical Data

- Case:SOD-323F Plastic Package
- Weight:Approx. 0.004g
- Packaging:
  3K per 7"reel(8mm tape)
  45K inner box, 180K out box
- Marking: T6(BAV16WS)
  A8(BAV19WS)

Maximum Ratings & Thermal Characteristics

Tamb=25℃, unless otherwise specified

Characteristic	Symbol	Max Ratings		Unit
		BAV16WS	BAV19WS	
Maximum Peak Reverse Voltage	V_{RM}	85	120	V
Reverse Voltage	V_R	80	100	V
Continuous Forward Current	I_F	300	200	mA
Surge Current (1uS)	I_{FSM}	2	2	A
Power Dissipation	P_D	200	200	mW
Junction Temperature	T_j	150		°C
Storage Tempearture Range	T_{stg}	-55~150		°C

Electrical Characteristics

Tamb=25℃, unless otherwise specified

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_{F(1)}$	I_F=1mA	-	0.60	-	V
	$V_{F(2)}$	I_F=10mA	-	0.72	-	
	$V_{F(3)}$	I_F=150mA	-	-	1.25	
Reverse Current	I_R	V_R=80V	-	-	10	uA
Total Capcitance	C_T	V_R=0, f=1MH$_Z$	-	0.9	3.0	pF
Reverse Recovery Time	t_{rr}	I_F=10mA	-	1.6	4.0	nS

ELECTRICAL CHARACTERISTIC CURVES

(Ta = 25°C)

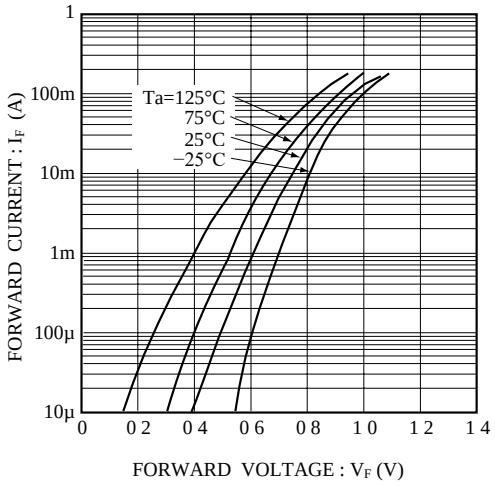


Fig.1 Forward characteristics

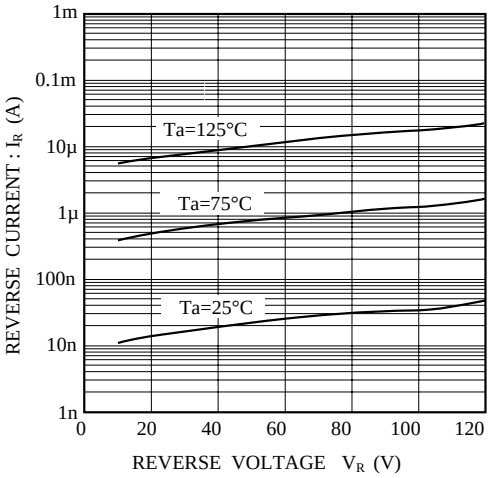


Fig.2 Reverse characteristics

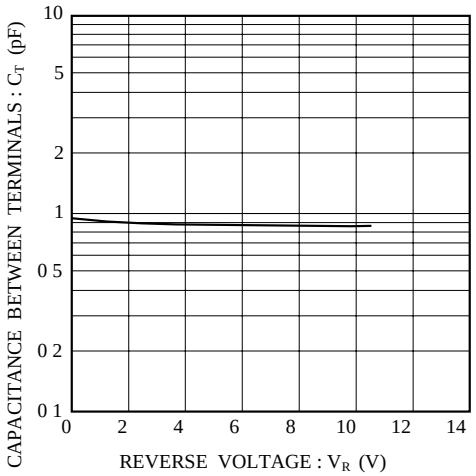


Fig.3 Capacitance between terminals characteristics

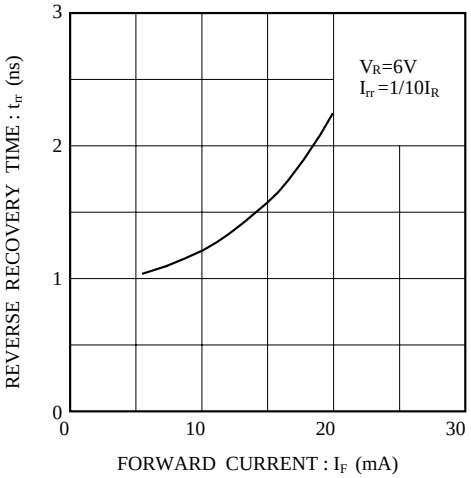


Fig.4 Reverse recovery time characteristics

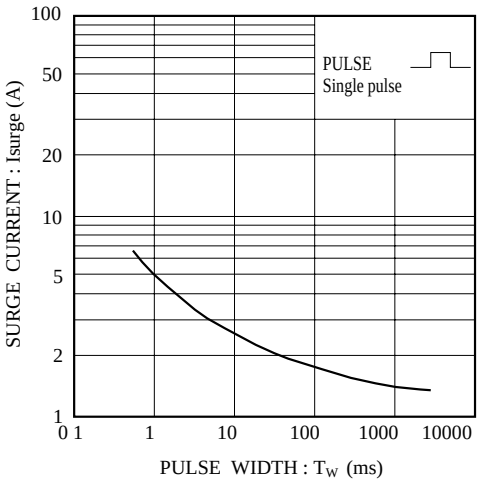


Fig.5 Surge current characteristics

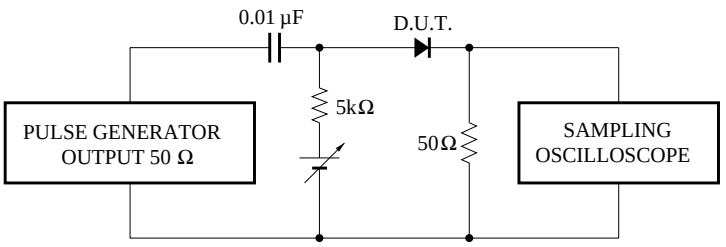


Fig.6 Reverse recovery time (t_{rr}) measurement circuit