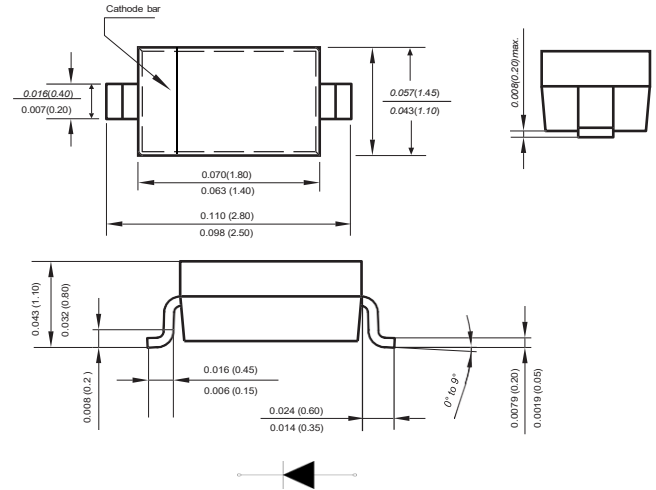


FAST SWITCHING DIODES

Features

- ◆ Fast switching speed
- ◆ Surface mount package ideally suited for automatic insertion
- ◆ For general purpose switching applications
- High conductance

SOD-323



Dimensions in inches and (millimeters)

PARAMETER	SYMBOLS	BAV16WS	UNITS
Peak repetitive peak reverse voltage	V_{RRM}	75	V
Working peak reverse voltage	V_{RWM}		
DC Blocking voltage	V_R		
RMS Reverse voltage	$V_{R(RMS)}$	53	V
Forward continuous current	I_{FM}	300	mA
Average rectified output current	I_O	150	mA
Peak forward current @=1.0*s	I_{FSM}	2.0	A
@=1.0s		1.0	
Power dissipation	P_d	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	625	K/W
Junction temperature	T_J	125	°C
Storage temperature	T_{STG}	-65 to +150	°C
Non-Repetitive peak reverse voltage	V_{RM}	100	V

Characteristics at Ta= 25 °C

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Froward voltage	V_{F1}			0.715	V	$I_F=1.0mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1.0	V	$I_F=50mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_{R1}			1	uA	$V_R=75V$
	I_{R2}			25	nA	$V_R=20V$
Capacitance between terminals	C_T			2	pF	$V_R=0V, f=1.0MHz$
Reverse recovery time	t_{rr}			4	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

Typical Characterisitics

FIG. 1- FORWARD CHARACTERISTICS

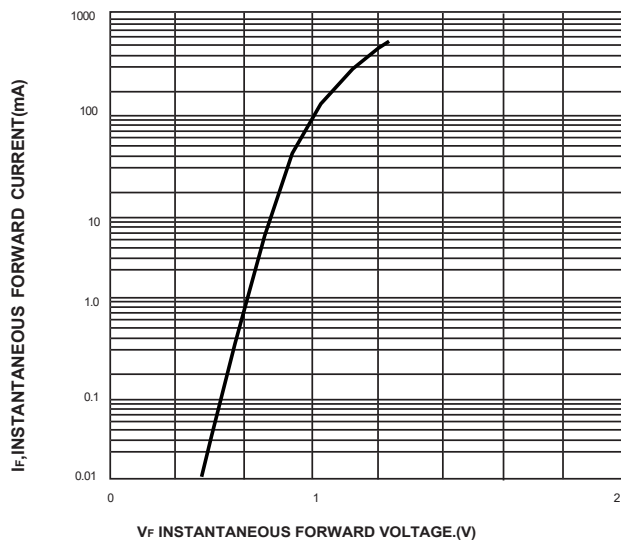
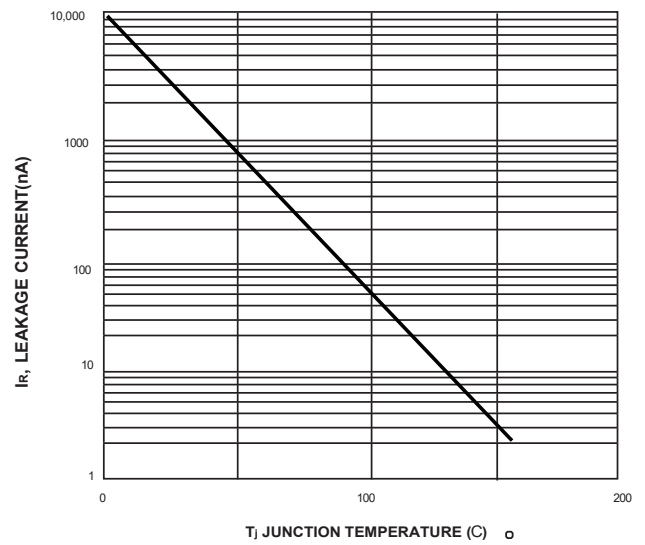


FIG. 2-LEAKAGE CURRENT VS JUNCTION TEMPERATURE



The curve above is for reference only.