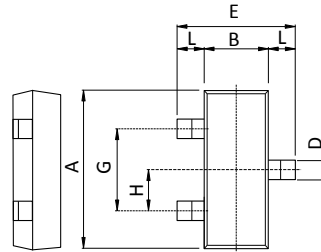


# Dual Switching Diode

SOT-23

## Features

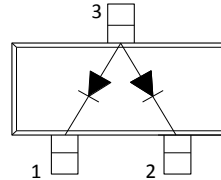
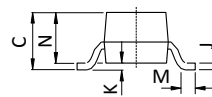
- Ultra high speed switching application
- Low Forward Voltage
- Fast Reverse Recovery Time
- Small Total Capacitance



Dim	Millimeters
A	2.90±0.15
B	1.30±0.15
C	1.05±0.15
D	0.40±0.10
E	2.50+0.10/-0.25
G	1.90±0.10
H	0.95
J	0.12+0.0/-0.1
K	0.00~0.10
L	0.55
M	0.40±0.10
N	1.0±0.10

## Mechanical Data

- Case:SOT-23 Plastic Package
- Weight:Approx. 0.008g
- Packaging:  
3K per 7" reel(8mm tape)
- Marking: A1



## Maximum Ratings & Thermal Characteristics

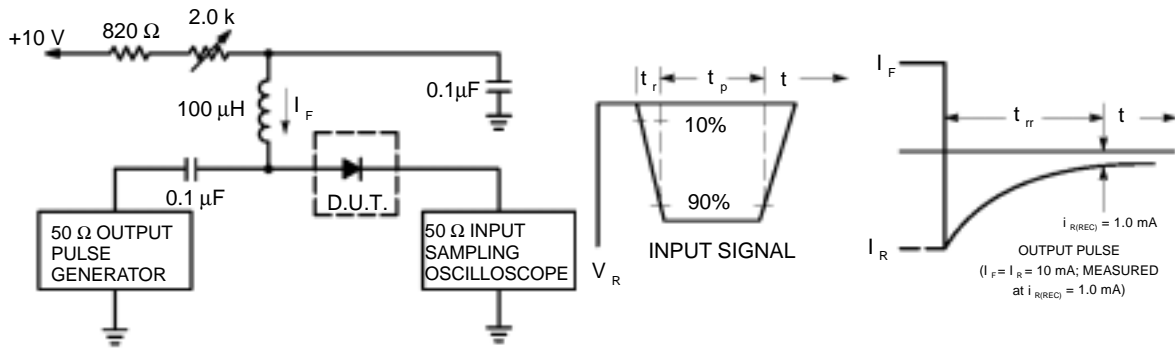
Tamb=25°C, unless otherwise specified

Characteristic	Symbol	Max Ratings	Unit
Maximum Peak Reverse Voltage	$V_{RM}$	85	V
Reverse Voltage	$V_R$	80	V
Continuous Forward Current	$I_F$	250	mA
Surge Current (1uS)	$I_{FSM}$	2	A
Power Dissipation (Mounted On 99.5% Alumina, 10*8*0.6mm)	$P_D$	300	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C

## Electrical Characteristics

Tamb=25°C, unless otherwise specified

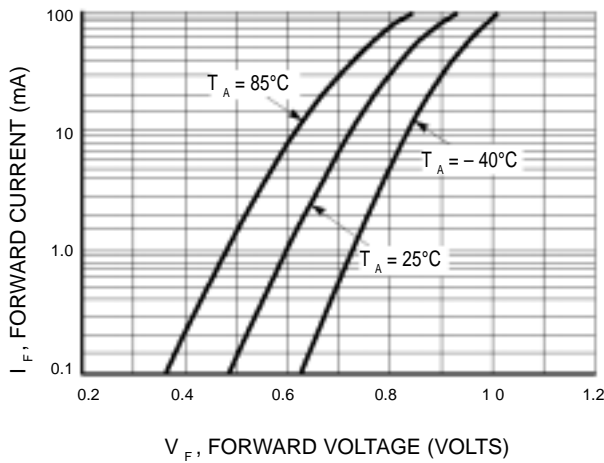
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_{F(1)}$	$I_F=1mA$	-	0.60	-	V
	$V_{F(2)}$	$I_F=10mA$	-	0.72	-	
	$V_{F(3)}$	$I_F=150mA$	-	-	1.25	
Reverse Current	$I_R$	$V_R=80V$	-	-	10	uA
Total Capacitance	$C_T$	$V_R=0, f=1MHz$	-	0.9	3.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10mA$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



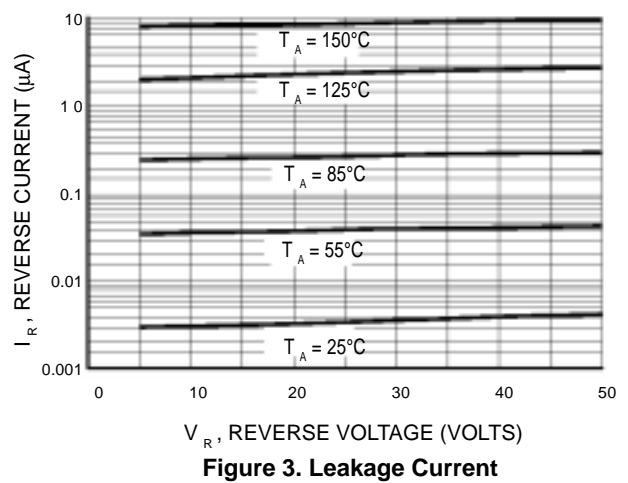
- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current ( $I_F$ ) of 10mA.  
 2. Input pulse is adjusted so  $I_{R(\text{peak})}$  is equal to 10mA.  
 3.  $t_p \gg t_{rr}$

**Figure 1. Recovery Time Equivalent Test Circuit**

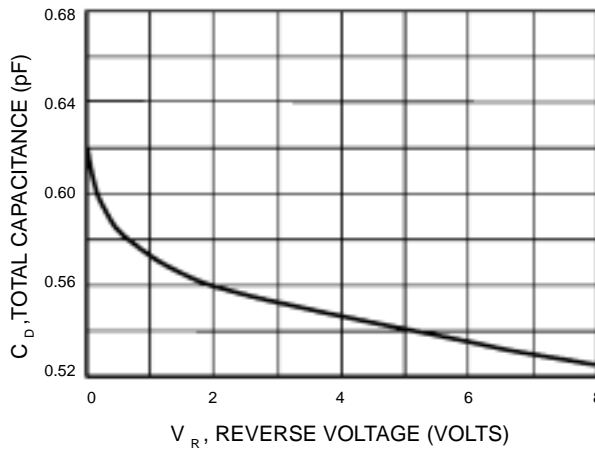
CURVES APPLICABLE TO EACH DIODE



**Figure 2. Forward Voltage**



**Figure 3. Leakage Current**



**Figure 4. Capacitance**