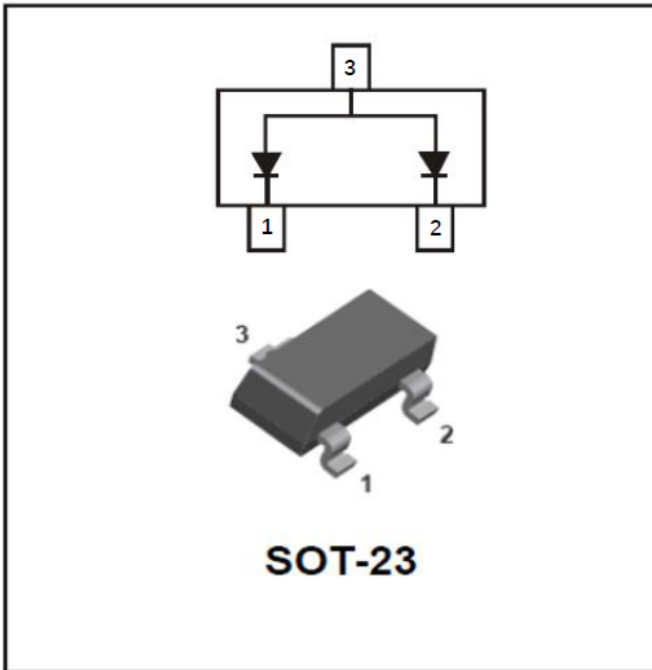


## Dual Switching Diode



### Features

- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion
- Epoxy meets UL-94 V-0 flammability rating, halogen-free

### Mechanical Data

- **Package:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** P

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Reverse Voltage	$V_R$	V	80
Forward Continuous Current	$I_F$	mA	100
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	$I_{FSM}$	A	2
Power Dissipation	$P_D$	mW	200
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	°C/W	625
Operation Junction Temperature	$T_J$	°C	150
Storage Temperature	TSTG	°C	-55 to +150



# DAP202

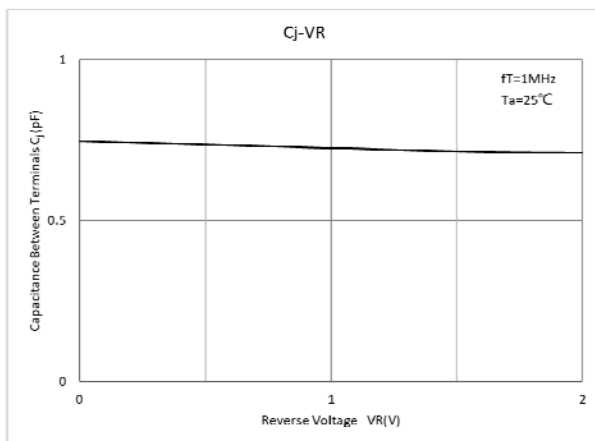
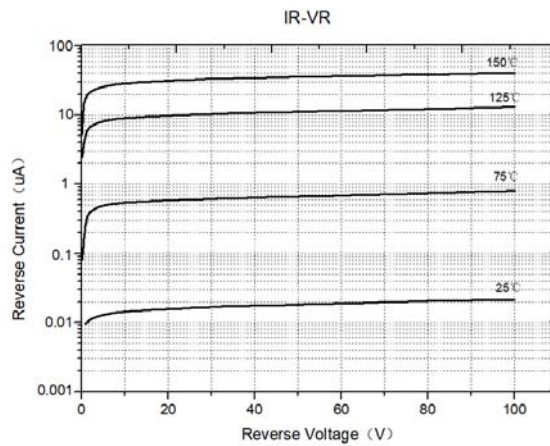
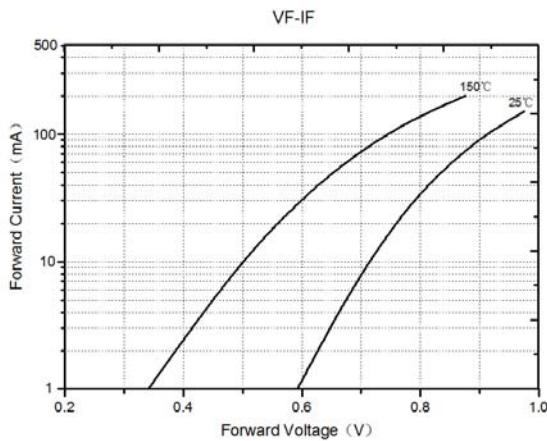
## ■ Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Conditions	MIN	TYP	MAX
Reverse Voltage	$V_R$	V	$I_R=100\mu A$	80	-	-
Maximum Instantaneous Forward Voltage	$V_F$	V	$I_F=100mA$	-	-	1.2
Maximum DC Reverse Current	$I_R$	nA	$V_R=70V$	-	-	100
Typical Junction Capacitance	$C_J$	pF	$f=1.0MHz, V_R=6V$	-	-	3.5
Reverse Recovery Time	$T_{rr}$	ns	$I_F=I_R=10mA$ $I_{rr}=0.1*I_R, R_L=100\Omega$	-	-	4

## ■ Ordering Information (Example)

Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
DAP202	F2	Approximate 0.008	3000	30000	120000	7" reel

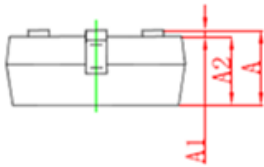
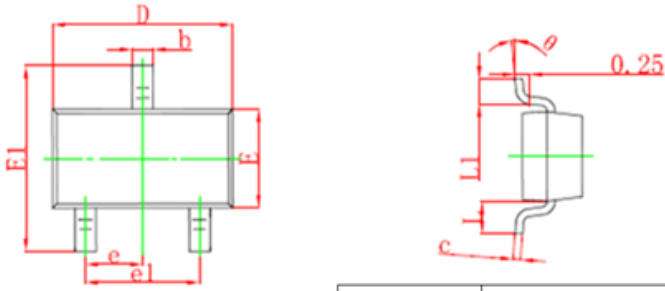
## ■ Characteristics (Typical)





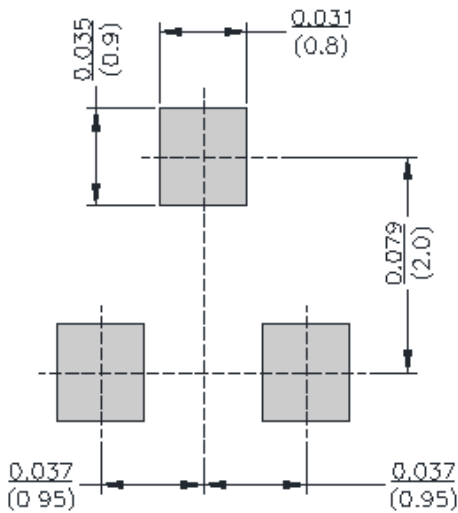
# DAP202

## ■ SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

## ■ SOT-23 Suggested Pad Layout





## DAP202

---

### Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.