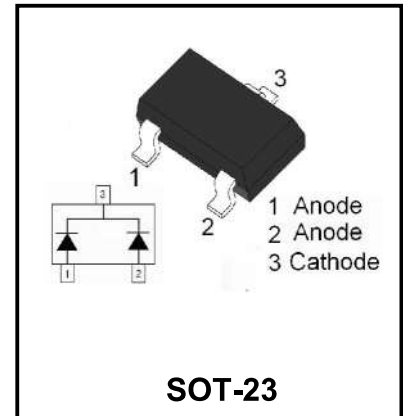


Dual Switching Diode Common Cathode

Features

- High Conductance: $I_F = 100 \text{ mA}$
- Fast Switching Speed: $t_{rr} < 4 \text{ ns}$ Maximum
- Small Plastic SOT-23 Package



Marking Code	
DAN202K	N

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Values	Units
Reverse Voltage	V_R	80	V
Forward current	I_F	100	mA
Peak Forward Surge Current	$I_{FM(surge)}$	300	mA
Power dissipation $T_S \leq 55 \text{ }^\circ\text{C}$	P_D	200	mW
Operating temperature range	T_j	-55~150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	K/W

Electrical Characteristics (Ta=25°C Unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ	Max.	Units
DC Characteristics						
Breakdown Voltage, per Diode	V_R	$I_R = 100\mu\text{A}$	80			V
Forward voltage, per Diode	V_F	$I_F = 1 \text{ mA}$			0.7	V
		$I_F = 10 \text{ mA}$			0.8	
		$I_F = 50 \text{ mA}$			1.0	
		$I_F = 100 \text{ mA}$			1.2	
Reverse Leakage, per Diode	I_R	$V_R = 70\text{V}$			0.1	μA
Total Capacitance, per Diode	C_T	$V_R = 6 \text{ V}, f = 1.0 \text{ MHz}$			3.5	pF
Reverse-Recovery Time, per Diode	t_{rr}	$V_R = 6\text{V}, I_F = 5\text{mA}$			4	ns

Typical Characteristic

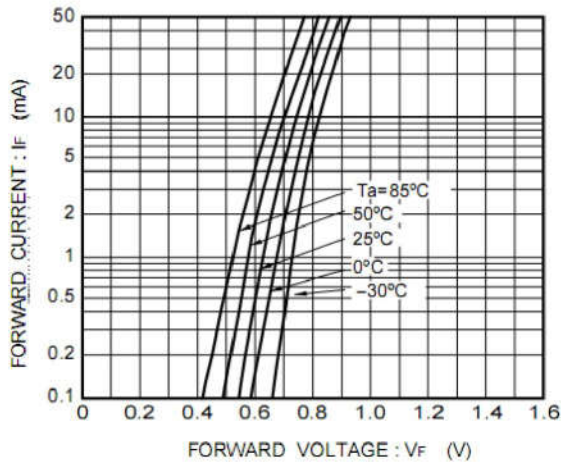


Figure 1. Forward characteristics

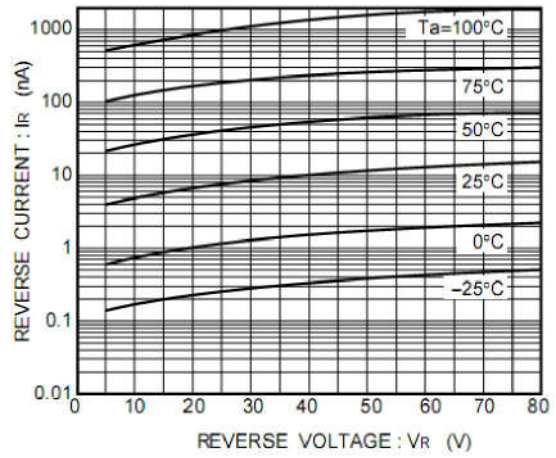


Figure 2. Reverse characteristics

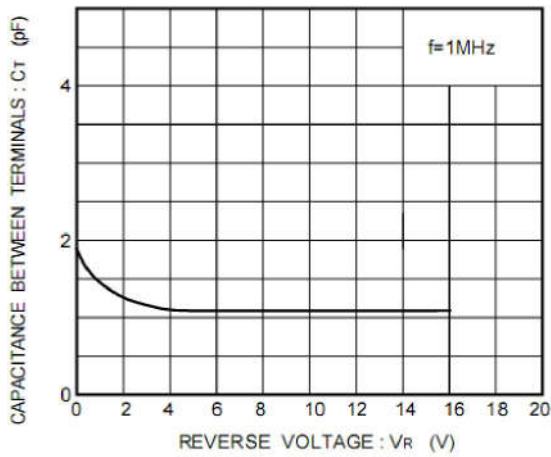


Figure 3. Capacitance between terminals characteristics

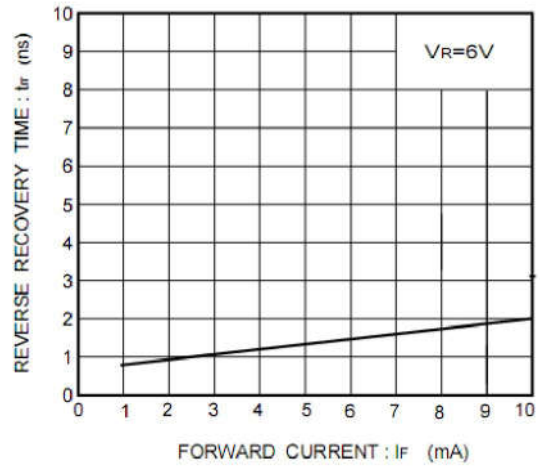


Figure Reverse recovery time

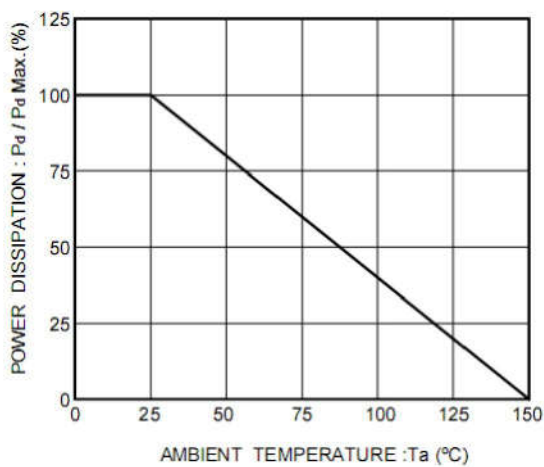


Figure 5. Power attenuation curve

Ordering information

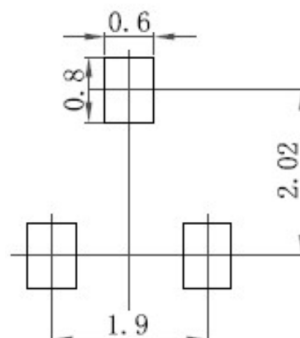
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



Disclaimer

The information presented in this document is for reference only. Guangdong Youfeng Microelectronics 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), YFW 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 <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.