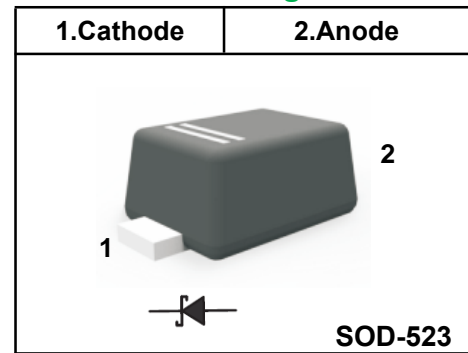


■ Schottky Barrier Diode

Pinning



Marking Code

B5819WT	S4
----------------	-----------

Features

- Low forward voltage drop
- Guard ring construction for transient protection
- Negligible reverse recovery time
- Low reverse capacitance

Absolute Maximum Ratings Ta = 25°C

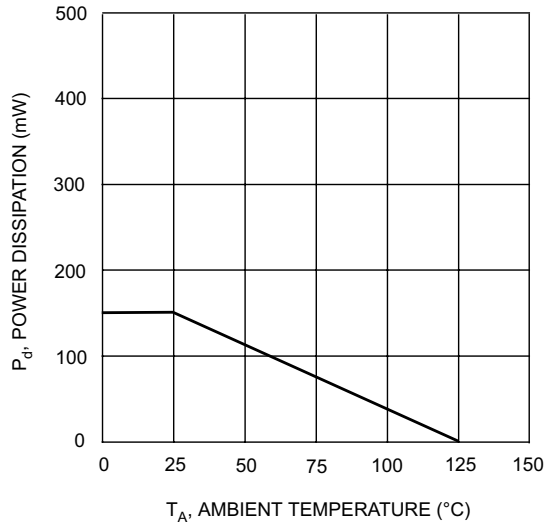
Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage	VRRM	40	V
Working peak	VRWM		
DC blocking voltage	VR		
RMS reverse voltage	VR(RMS)	28	V
Forward continuous current	IFM	350	mA
Non-Repetitive Peak Forward Surge Current @t≤1.0s	IFRM	1.5	A
Power Dissipation	Pd	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	667	°C/W
Operating and Storage Temperature Range	Tj, TSTG	-65 to +125	°C

Notes: 1. Part mounted on FR-4 board with recommended pad layout

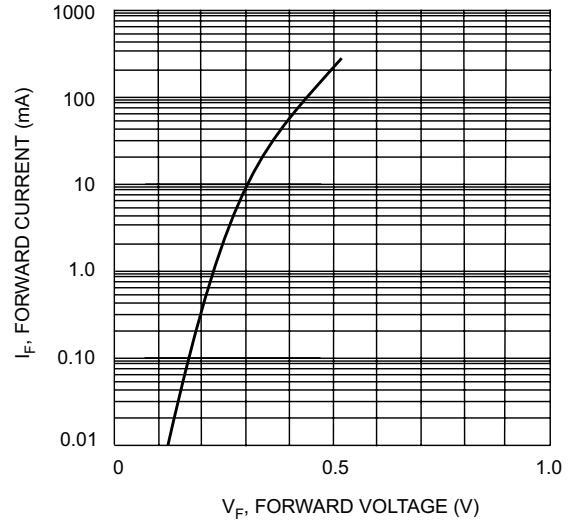
Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V (BR)R	IR=100 μ A	40			V
Forward Voltage Drop	VFM	IF = 20mA IF = 200mA			0.37 0.60	V
Peak Reverse Current	IRM	VR = 30V			5	μ A
Total Capacitance	CT	VR = 0V, f = 1.0MHz		50		pF
Reverse Recovery Time	trr	IF = IR = 200mA, Irr = 0.1 X IR, RL = 100 Ω		10		ns

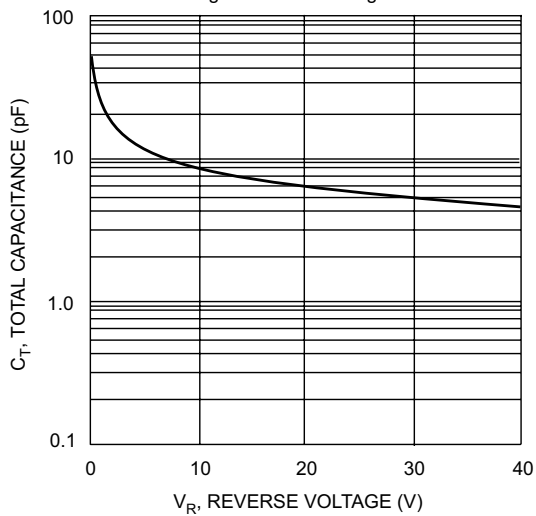
Typical characteristics



T_A: AMBIENT TEMPERATURE (°C)
Fig.1 Power Derating Curve



V_F: FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



V_R: REVERSE VOLTAGE (V)
Fig. 3 Typ. Total Capacitance vs Reverse Voltage

Ordering information

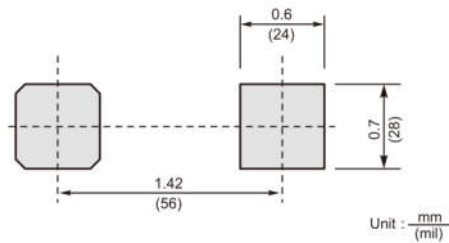
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-523

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.51	0.77	20	30
e	0.25	0.35	10	14
C	0.08	0.15	3	6
D	1.10	1.30	43	51
E	0.75	0.99	30	39
HE	1.50	1.70	59	67
N	0.35ref		14ref	
L	0.2ref		8ref	
P	R0.1 ALL ROUND		R4.0 ALL ROUND	
∠	10°			

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.