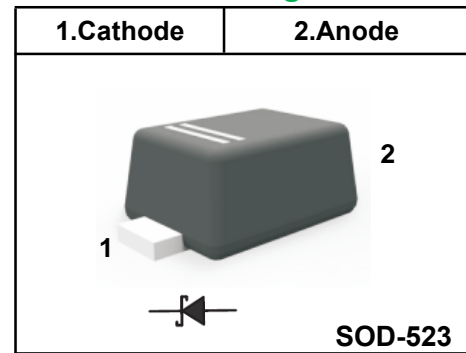


■ Schottky Barrier Diode

Pinning



Marking Code

1N5819WT	S4
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Features

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

Absolute Maximum Ratings Ta = 25°C

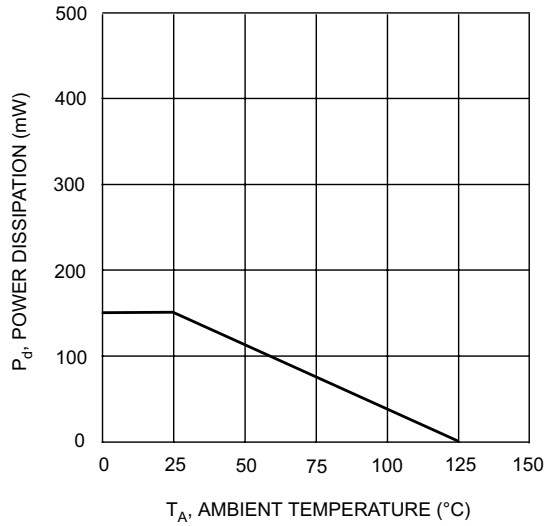
Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage	VRRM	40	V
Working peak	VRWM		
DC blocking voltage	VR		
RMS reverse voltage	VR(RMS)	28	V
Forward continuous current	IFM	350	mA
Non-Repetitive Peak Forward Surge Current @t≤1.0s	IFRM	1.5	A
Power Dissipation	Pd	150	mW
Thermal Resistance, 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

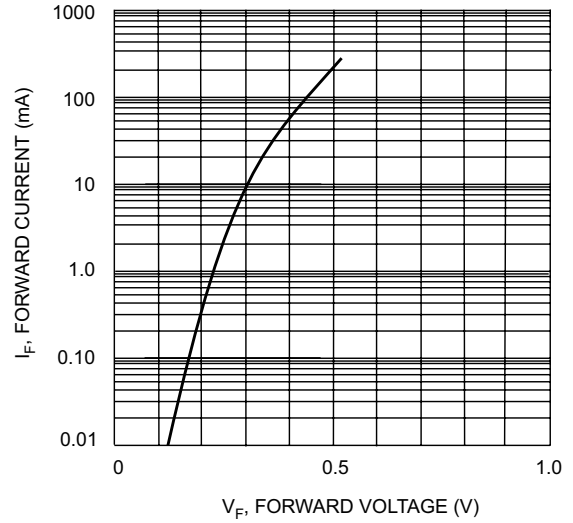
Electrical Characteristics Ta = 25°C

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

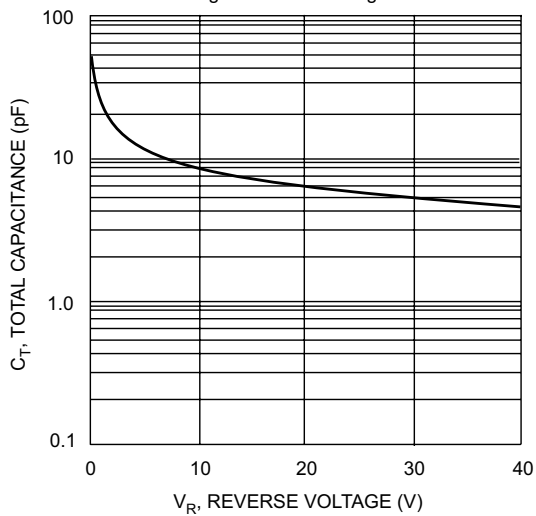
Typical characteristics



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

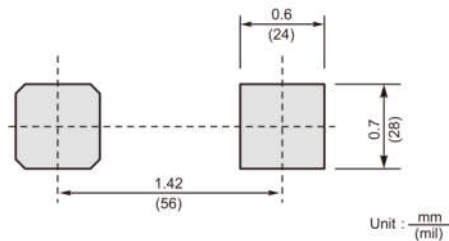
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

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



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