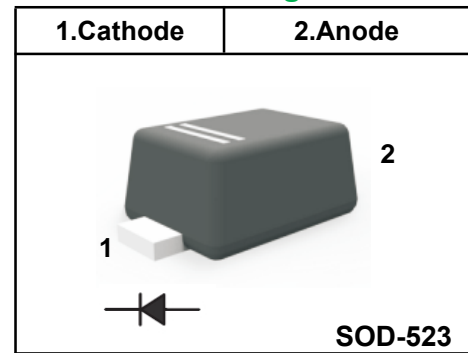


■ Switching Diodes

Features

- Fast Switching Speed
- High reliability

Pinning



Marking Code

1N4007WT	A
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Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage (Repetitive)	V _{RM}	90	V
Reverse voltage (DC)	V _R	80	
Average rectified forward current	I _o	100	mA
Forward voltage (Repetitive Peak)	I _{FM}	225	
Surge Current(t=1s)	I _{surge}	500	
Junction Temperature	T _J	125	°C
Storage Temperature range	T _{stg}	-55 to 125	

Electrical Characteristics at Ta = 25 °C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R = 100 uA	90			V
Forward voltage	V _F	I _F = 100 mA			1.2	
Reverse voltage leakage current	I _R	V _R = 80 V			0.1	uA
Junction capacitance	C _j	V _R = 0.5 V, f= 1 MHz			3	pF
Reverse recovery time	t _{rr}	V _R =6V,I _F =10mA, R _L =100Ω			4	ns

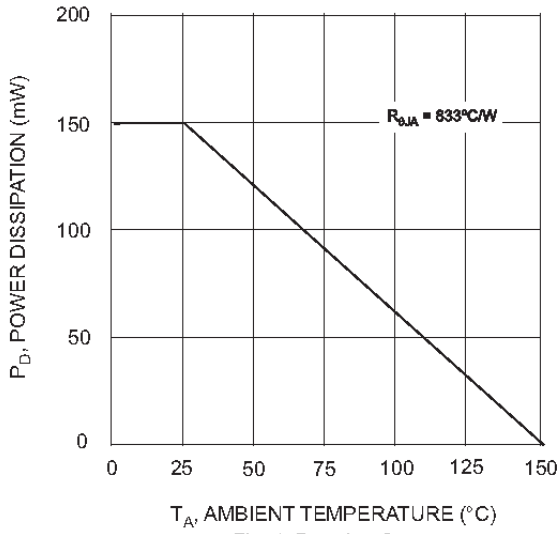


Fig. 1 Derating Curve

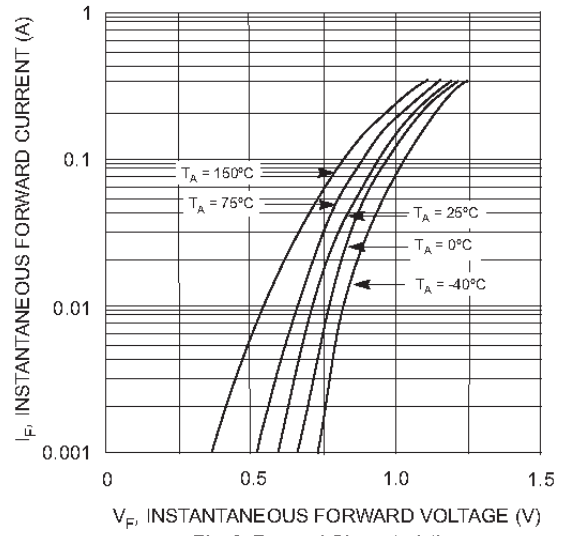


Fig. 2 Forward Characteristics

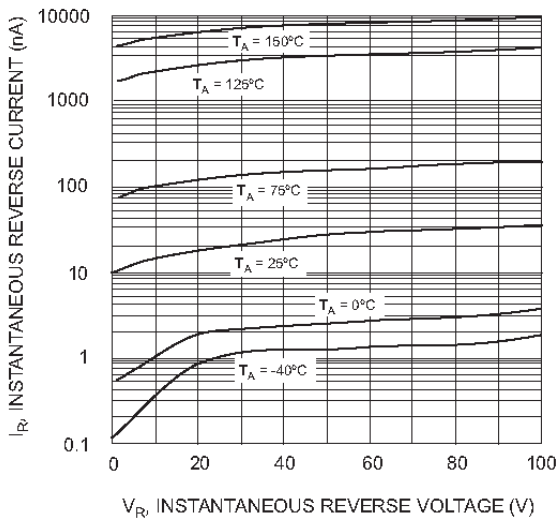


Fig. 3 Typical Reverse Characteristics

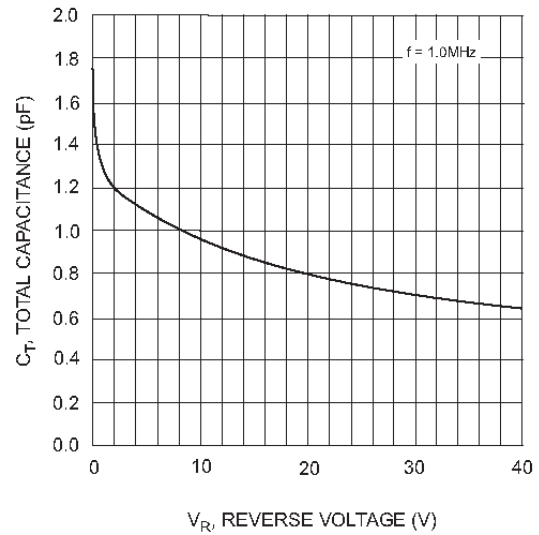


Fig. 4 Typical Capacitance vs. Reverse Voltage

Ordering information

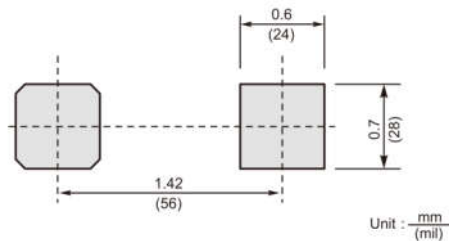
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7"reel	3000PCS/Reel 120000PCS/Carton

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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