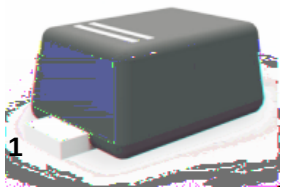
YFW 佑风微

SOD-523

■ **Schottky Barrier Diode**

Pinning

1.Cathode	2.Anode



SOD-523

Marking Code	
	S4

Features

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

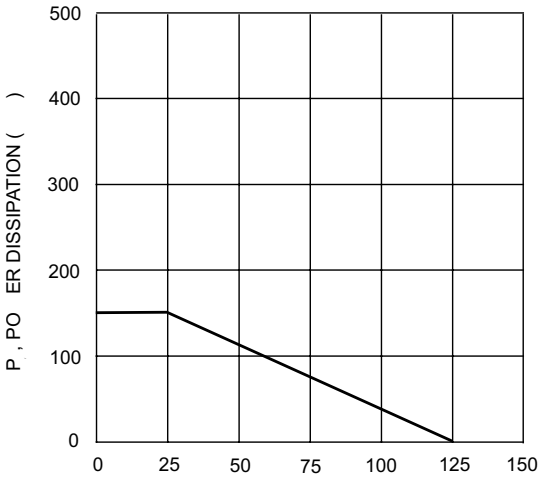
Absolute Maximum Ratings Ta = 25

Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage Working peak DC blocking voltage	V_{RRM} V_{RWM} V_R	40	V
RMS reverse voltage	$V_{R(RMS)}$	28	V
Forward continuous current	I_{FM}	350	mA
Non-Repetitive Peak Forward Surge Curren @t ≤ 1.0s	I_{FRM}	1.5	A
Power Dissipation	P_d	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	667	/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +125	

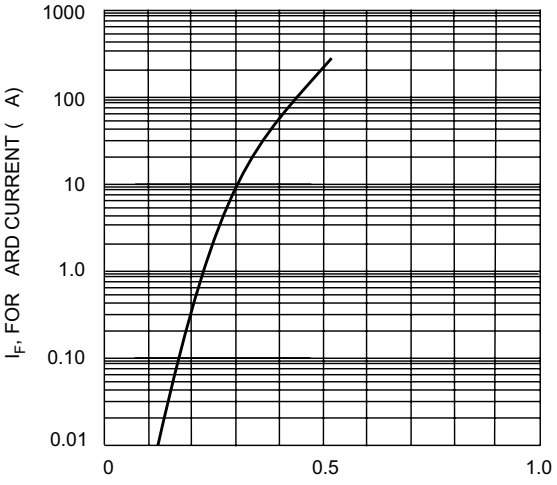
Notes: 1. Part mounted on FR-4 board with recommended pad layout

Electrical Characteristics Ta = 25 s e

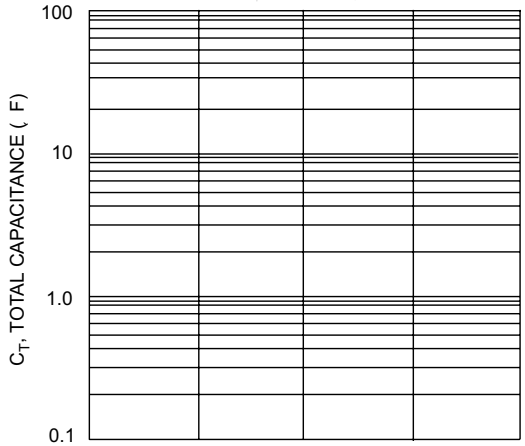
Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)R}$	I_R=100 μ A	40			V
Forward Voltage Drop	V_{FM}	I_F = 20mA I_F = 200mA			0.37 0.60	V
Peak Reverse Current	I_{RM}	V_R = 30V			5	μ A
Total Capacitance	C_T	V_R = 0V, f = 1.0MHz		50		pF
Reverse Recovery Time	t_{rr}	I_F = I_R = 200mA,I_{rr} = 0.1 X I_R, R_L = 100Ω		10		ns



F .1 P , , D , t C , ,



F .2 T , F , , , C , t , t



F .3 T , .Tt C , t , , R , , , V t , ,

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

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