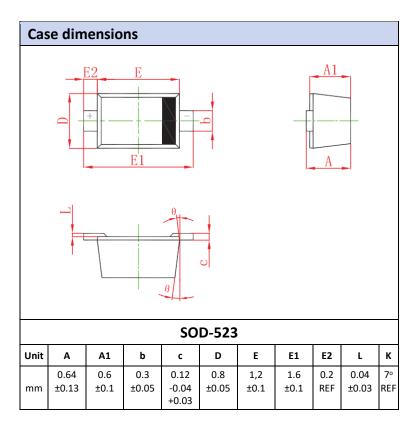


Fast Switching SMD Diodes

Primary characteristics				
Parameter	Value	Unit		
Reverse voltage	75	V		
Power rating	150	mW		

Features

- **SOD-523** case for easy automatic insertion.
- Pb-Free and RoHS Compliant
- Fast Switching Speed
- Low reverse current

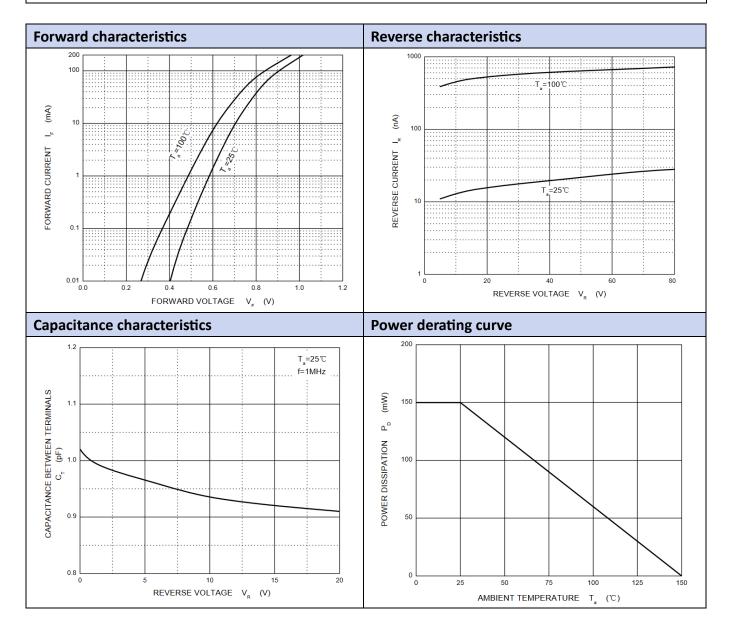


Absolute maximum ratings and electrical characteristics (T _a = 25°C)						
Parameter	Symbol	Test condition	Value			Unit
			Min.	Тур.	Max.	Unit
Non-repetitive peak reverse voltage	V_{RM}	-	-	-	100	٧
Peak repetitive reverse voltage Working peak reverse voltage Reverse voltage	V _{RRM} V _{RWM} V _R	I _R =1.0μA	-	-	75	٧
RMS reverse voltage	V _{R(RMS)}	-	-	53	-	٧
Forward continuous current 1)	I _{FM}	-	-	300	-	mA
Average rectified output current 1)	lo	-	-	150	-	mA
Non-repetitive peak forward surge current @t=8.3ms	I _{FSM}	-	-	-	2.0	А
Power dissipation	P _D	-	-	-	150	mW
Thermal resistance, junction to ambient air ¹⁾	R _{eJA}	-	-	833	-	°C/W
Operating and storage temperature range	T _j , T _{STG}	-	-55	-	150	°C

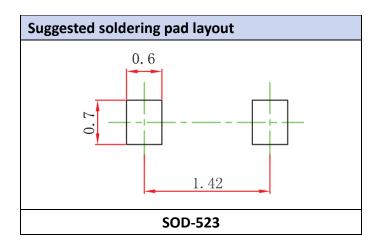
Akyga semi Page 1/3 2023-08; REV. 1



Parameter	Symbol	Test condition	Value			l lmia
	Symbol		Min.	Тур.	Max.	Unit
Forward voltage		I _F =1mA	-	-	0.715	- V
	V	I _F =10mA	-	-	0.855	
	V _F	I _F =50mA	-	-	1.0	
		I _F =150mA	-	-	1.25	
Reverse current		V _R =75V	-	-	1.0	μΑ
	I _{RM}	V _R =20V	-	-	25	nA
Capacitance	Cj	V _R =0, f=1.0MHz	-	-	2.0	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA; $I_{rr}=0.1*I_{R1}$; $R_L=100\Omega$	-	-	4.0	ns







Ordering information					
Part number	Package	Shipping quantity / reel	Dimensions	Shipping quantity / box	
1N4148WT	SOD-523	3000 pcs / 7' reel	183 x 188 x 80 mm 386 x 265 x 215 mm	45 000 pcs / box 180 000 pcs / box	

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Akyga semi Page 3/3 2023-08; REV. 1