

Features

- Average Rectified Output Current:l_O= 1A
- Power Dissipation of 500mW



SOD-123



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1N5817W	SOD-123	SJ	3000

Maxmim Ratings (Ta=25°C unless otherwise noted)

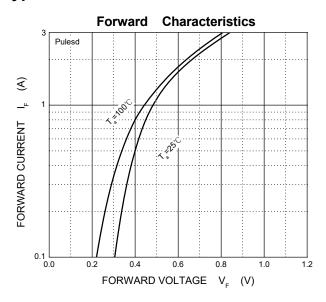
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	20	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	V
RMS Reverse Voltage	V _{R(RMS)}	14	V
Average Rectified Output Current	Io	1	А
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	9	А
Repetitive Peak Forward Current	I _{FRM}	1.5	А
Power Dissipation	PD	500	mW
Thermal Resistance Junction to Ambient	R _{θJA}	200	°C/W
OperationJunction temperature Range	TJ	-40~+125	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

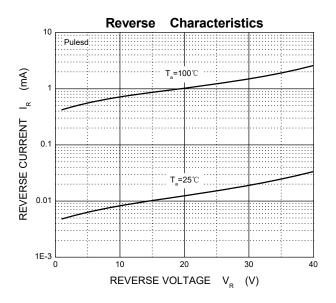
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

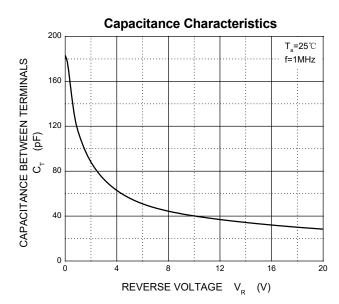
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA	20		>
Reverse voltage leakage current	I _R	V _R =20V		1	mA
Forward voltage	V _F	I _F =1A I _F =3A		0.45 0.75	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF

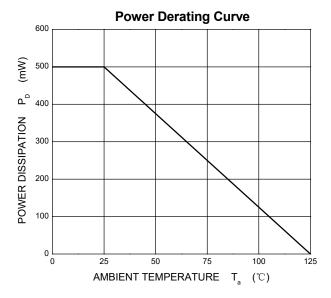


Typical Characteristics



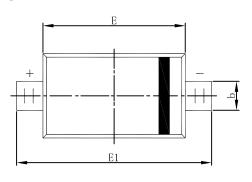


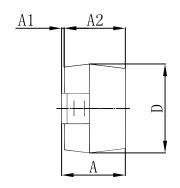


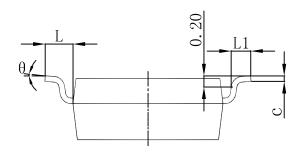




SOD-123 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
С	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
Е	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°



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