

SOD-123 Plastic-Encapsulate Diodes

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25℃

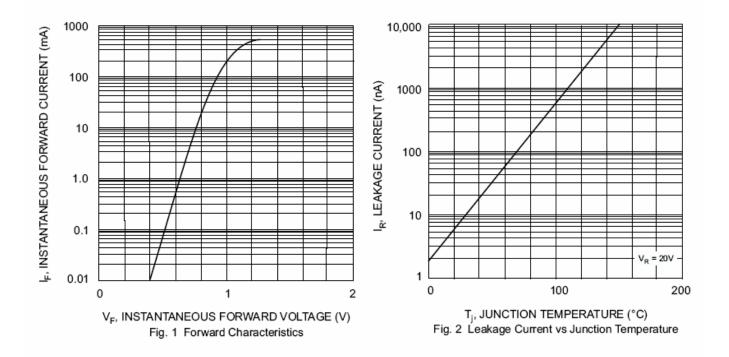
Parameter	Symbol	Limits	Unit	
Non-Repetitive Peak reverse voltage	V_{RM}	100	V	
Peak Repetitive Peak reverse voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	75	V	
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	53	V	
Forward Continuous Current	I _{FM}	300	mA	
Average Rectified Output Current	lo	150	mA	
Peak forward surge current @=1.0µs		2.0	Α	
@=1.0s	I _{FSM}	1.0	A	
Power Dissipation	Pd	400	mW	
Thermal Resistance Junction to Ambient	$R_{ heta JA}$	315	°C/W	
Junction temperature	Tj	125	℃	
Storage temperature	T _{STG}	-65~+150	℃	

Electrical Ratings @T_A=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F1}			0.715	V	I _F =1mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _{R1}			1	μA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	C _T			2	pF	V _R =0V,f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	I _F =I _R =10mA
Neverse Necovery Time						Irr=0.1 XI_R , R_L =100 Ω

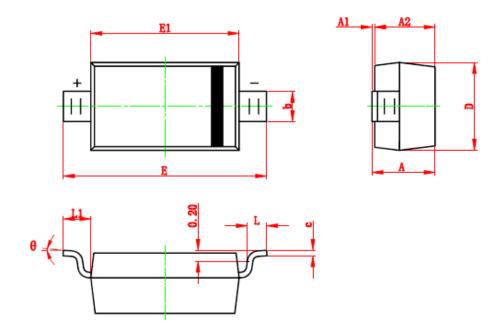


Typical Characteristics





SOD-123 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	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	
E	3.550	3.850	0.140	0.152	
E1	2.600	2.800	0.102	0.110	
L	0.250	0.450	0.010	0.018	
L1	0.500	REF.	0.020 REF.		
θ	0°	8°	0°	8°	