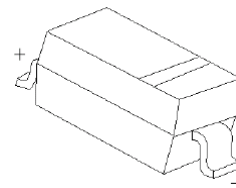


### GN4004~GN4007

RECTIFICATION DIODE

**SOD-123**



#### FEATURES

- Low Leakage Current
- Ideal for Surface Mounted Applications

**MARKING:** GN4004:Z44, GN4005:Z45  
GN4006:Z46, GN4007:Z47

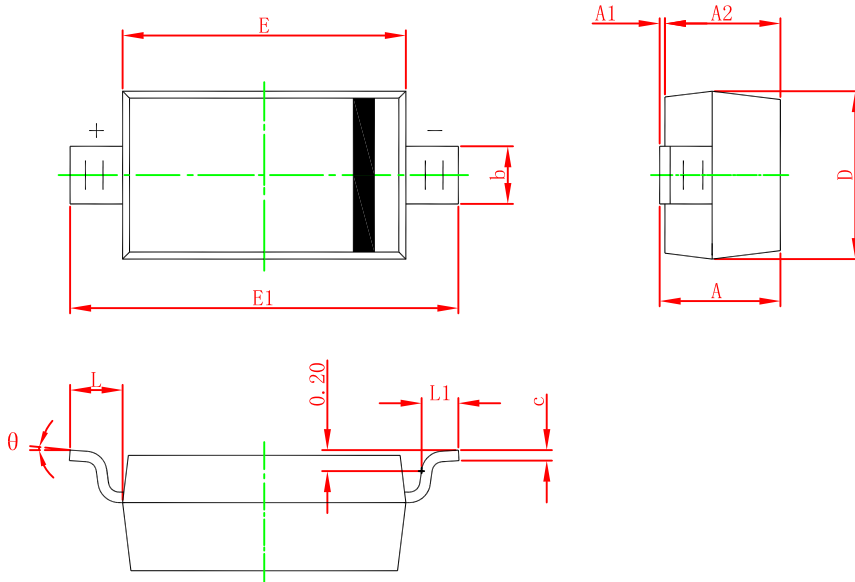
#### MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ unless otherwise noted )

Symbol	Parameter	Value				Unit
		GN4004	GN4005	GN4006	GN4007	
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	400	600	800	1000	V
$V_R$	Reverse Voltage					
$V_{R(RMS)}$	RMS Reverse Voltage	280	420	560	700	V
$I_O$	Forward Current	1				A
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current 8.3ms Half Sine Wave	30				
$P_D$	Power Dissipation	350				mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	357				$^\circ\text{C}/\text{W}$
$T_j$	Junction Temperature	150				$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55~+150				$^\circ\text{C}$

#### ELECTRICAL CHARACTERISTICS( $T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$ GN4004	400			V
		$I_R=100\mu\text{A}$ GN4005	600			
		$I_R=100\mu\text{A}$ GN4006	800			
		$I_R=100\mu\text{A}$ GN4007	1000			
Reverse current	$I_R$	$V_R=400\text{V}$ GN4004			5	$\mu\text{A}$
		$V_R=600\text{V}$ GN4005			5	
		$V_R=800\text{V}$ GN4006			5	
		$V_R=1000\text{V}$ GN4007			5	
Forward voltage	$V_F$	$I_F=1\text{A}$			1.1	V
Total capacitance	$C_{tot}$	$V_R=4\text{V}, f=1\text{MHz}$			15	pF

## SOD-123 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	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°