



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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- AVAILABLE IN JAN, JANTX AND JANTXV  
PER MIL-PRF-19500/118
- GENERAL PURPOSE SILICON DIODES
- METALLURGICALLY BONDED

1N5194UR  
1N5195UR  
1N5196UR  
CDLL5194  
CDLL5195  
CDLL5196

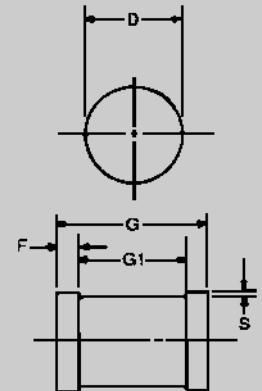
### MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C  
Storage Temperature: -65°C to +175°C  
Operating Current: 200 mA  
Derating: 1.2mA/°C from 25°C to 150°C  
1.0mA/°C from 150°C to 175°C  
Forward Current: 650mA

### ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE	$V_{RM}$	$V_{RWM}$	$I_O$	$I_O$ $T_A = +150^\circ C$	$I_{FSM}$ $T_P = 1/120 S$ $T_A = 25^\circ C$
	V(pk)	V(pk)	mA	mA	A
CDLL, 1N5194UR	80	70	200	50	2
CDLL, 1N5195UR	180	180	200	50	2
CDLL, 1N5196UR	250	225	200	50	2

TYPE	$V_F$ @100mA	$I_{R1}$ at $V_{RWM}$	$I_{R2}$ at $V_{RM}$ $T_A = 25^\circ C$	$I_{R3}$ at $V_{RWM}$ $T_A = 150^\circ C$
	V dc	nA dc	$\mu A$	$\mu A$ dc
CDLL, 1N5194UR	0.8 - 1.0	25	100	5
CDLL, 1N5195UR	0.8 - 1.0	25	100	5
CDLL, 1N5196UR	0.8 - 1.0	25	100	5



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
D	1.60	1.70	0.063	0.067
F	0.41	0.55	0.016	0.022
G	3.30	3.70	.130	.146
G1	2.54 REF.		.100 REF.	
S	0.03 MIN.		.001 MIN.	

FIGURE 1

### DESIGN DATA

**CASE:** DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ( $R_{QJEC}$ ):  
100 °C/W maximum

**THERMAL IMPEDANCE:** ( $Z_{QJX}$ ): 70  
°C/W maximum

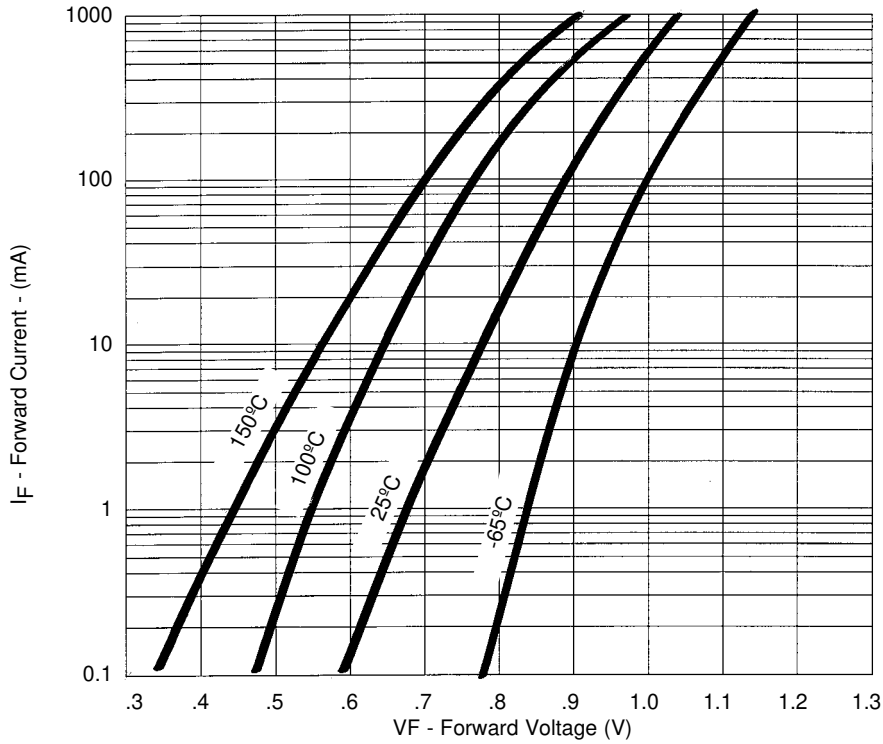
**POLARITY:** Cathode end is banded.

**MOUNTING POSITION:** Any.

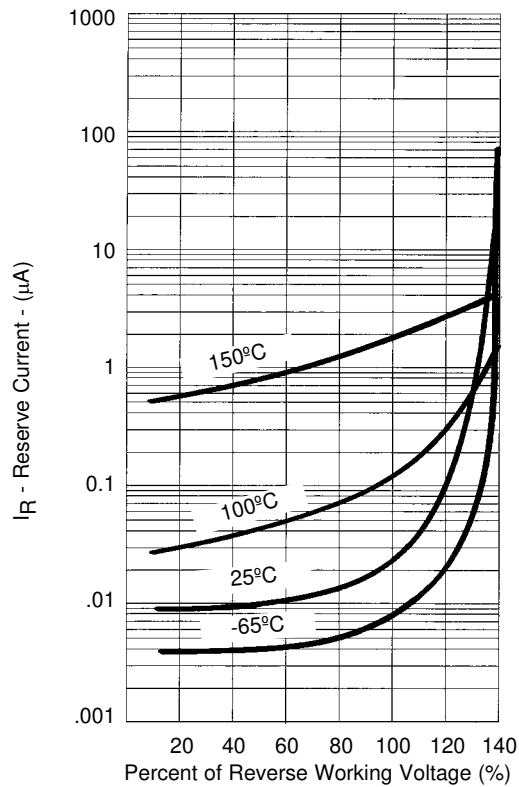
**MOUNTING SURFACE SELECTION:**  
The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.



# IN5194UR thru IN5196UR, CDLL5194 thru CDLL5196



**FIGURE 2**  
Typical Forward Current  
vs Forward Voltage



**NOTE :** All temperatures shown on graphs are junction temperatures

**FIGURE 3**  
Typical Reverse Current  
vs Reverse Voltage