



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!



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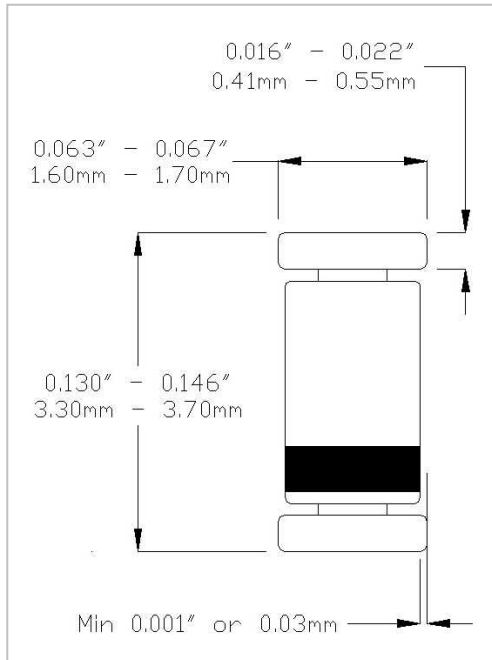
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# 1N4454UR-1

## FEATURES

- 1N4454UR-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/144
- SWITCHING DIODE
- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION
- ALSO AVAILABLE AS LL4454, CDLL4454, & MLL4454



## MAXIMUM RATINGS AT 25 °C

Operating Temperature:	-55°C to +175°C
Storage Temperature:	-55°C to +175°C
Surge Current, Sine, 1uS:	4.0A
Total Power Dissipation:	500mW
Operating Current:	200mA, T <sub>A</sub> = +25°C
Derating Factor:	1.33mA/°C above T <sub>A</sub> = +25°C
D.C. Reverse Voltage (VRWM):	50V

## DC ELECTRICAL CHARACTERISTICS

Ambient (°C)	V <sub>F</sub>			Ambient (°C)	I <sub>R</sub>			Ambient (°C)	V <sub>BR</sub>		
	I <sub>F</sub> mA	Min V	Max V		V (dc)	Min μA	Max μA		I <sub>R</sub> μA	Min V	Max V
25	10	-	1.0	25	50	-	0.1	25	5	75	-
150	10	-	0.7	150	50	-	100	-55	10	75	-

## DESIGN DATA

**Case:** Hermetically sealed glass package per MIL-PRF-19500/144 DO-213AA outline

**Lead Material:** Copper clad steel

**Lead Finish:** Tin/Lead

**Thermal Resistance (R<sub>θJEC</sub>):** 100°C/W maximum

**Thermal Impedance (Z<sub>θJX</sub>):** 70°C/W maximum

**Polarity:** Cathode end is banded.

## AC ELECTRICAL CHARACTERISTICS AT 25°C

	Symbol	Min	Max
Capacitance @ 0V	pF	-	2.0
T <sub>RR</sub> @ I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rec</sub> = 1mA.	nsec	-	4.0
T <sub>FR</sub> @ IF = 100mA	nsec	-	30
V <sub>FR</sub> @ IF = 100mA	V(pk)	-	5



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