

**PLASTIC SILICON RECTIFIERS**

REVERSE VOLTAGE - 50 to 600 Volts  
FORWARD CURRENT - 10 Amperes

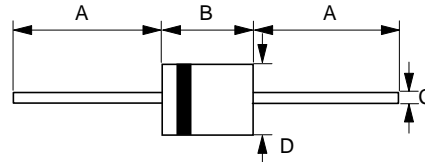
**FEATURES**

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

**MECHANICAL DATA**

- Case : JEDEC R-6 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.07 ounces, 2.1 grams
- Mounting position : Any

**R-6**



R-6		
Dim.	Min.	Max.
A	25.4	-
B	8.60	9.10
C	1.20 $\varnothing$	1.30 $\varnothing$
D	8.60 $\varnothing$	9.10 $\varnothing$

All Dimensions in millimeter

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	LT10A01	LT10A02	LT10A03	LT10A04	LT10A05	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =50°C	I <sub>(AV)</sub>	10.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I <sub>FSM</sub>	600					A
Maximum forward Voltage at 10A DC	V <sub>F</sub>	1.0					V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	10 100					uA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	150					pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	10					°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150					°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2. Thermal Resistance Junction to Ambient.

