

# LT6A01 thru LT6A07

#### **PLASTIC SILICON RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 6.0 Amperes

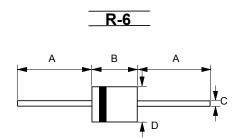
#### **FEATURES**

- 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						
Dim.	Min.	Max.					
Α	25.4	-					
В	8.60	9.10					
С	1.20 Ø	1.30 Ø					
D	8.60 Ø	9.10 Ø					
All Dimensions in millimeter							

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	LT6A01	LT6A02	LT6A03	LT6A04	LT6A05	LT6A06	LT6A07	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average @Tc=95℃ Forward Rectified Current @Tc=100℃ (Note 1)	I(AV)				6.0 3.5				Α
Peak Forward Surge Current 8.3ms single half sine-wave @TJ=25℃	IFSM	400						А	
Maximum forward Voltage at 6.0A DC	VF	1.0						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage       @TJ=25℃         @TJ=100℃	lr	10 100						uA	
Typical Junction Capacitance (Note 2)	Сл	100						pF	
Typical Thermal Resistance (Note 3)	Reja Rejc	25 7					°C/W		
Operating Temperature Range	TJ			-	55 to +12	5			°C
Storage Temperature Range	Тѕтс			-	55 to +150	0			°C

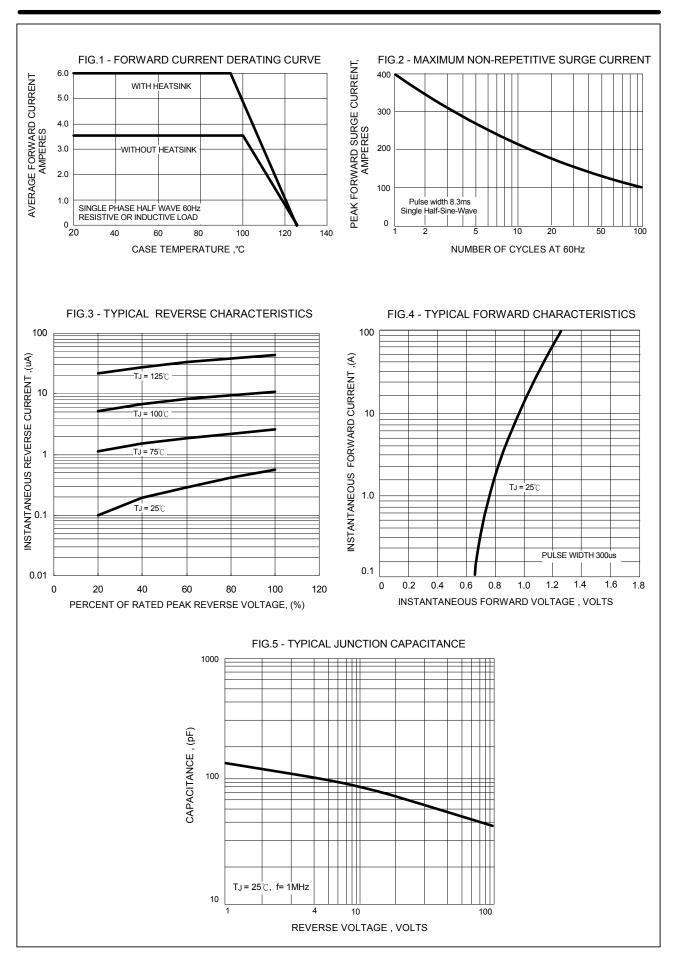
NOTES: 1. Unit Mounted on 50mm x 50mm x 1mm copper plate

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Ambient and case

REV. 4, Oct-2010, KDAG01







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