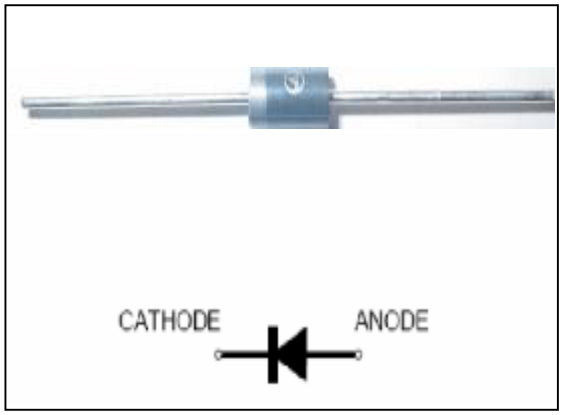
LUR680 thru LUR6100

Glass Passivated Junction Ultra Fast Rectifiers
Reverse Voltage 800 to 1000V Forward Current 6.0A

FEATURES

* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
* High temperature metallurgically bonded construction
* Glass passivated junction
* Capable of meeting environmental standards of MIL-S-19500
* For use in high frequency rectifier circuits
* Fast switching for high efficiency
* High temperature soldering guaranteed: 260°C/10 seconds
* 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



We declare that the material of product compliance with ROHS requirements

Mechanical Data

Case: JEDEC R-6, molded plastic over glass passivated die
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.038 oz., 1.03 g
Handling precautin:None

1.Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	LUR680	LUR6100	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	800	1000	V
Maximum RMS voltage	V_{RMS}	560	700	V
Maximum DC blocking voltage	V_{DC}	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length	IF(AV)	6.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	165		A
Maximum full load reverse current, full cycle average,0.375"(9.5mm) lead lengths at T_A = 75°C	IR(AV)	100		μA
Typical thermal resistance (Note 2)	RθJA	20		°C/W
Operating junction and storage temperature range	TJ, TSTG	–65 to +150		°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	LUR680	LUR6100	Unit
Maximum Instantaneous Forward Voltage (IF = 6.0 Amps, TJ = 25°C)	V_F	1.85		V
Maximum full load reverse current, full cycle average,0.375"(9.5mm) lead lengths (Rated dc Voltage, TJ = 150°C) (Rated dc Voltage, TJ = 25°C)	IR	200 5.0		μA
Typical reverse recovery time (Note 1)	trr	75		ns
Typical junction capacitance at 4.0V, 1MHz	CJ	45		PF

NOTES:

1. IF = 0.5A, IR = 1.0A, IRR = 0.25A
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

LUR680 thru LUR6100

2.Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

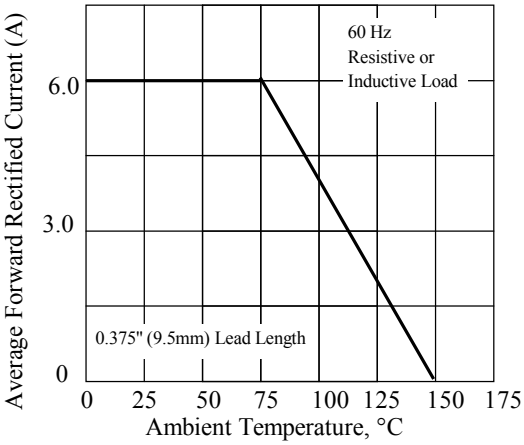


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

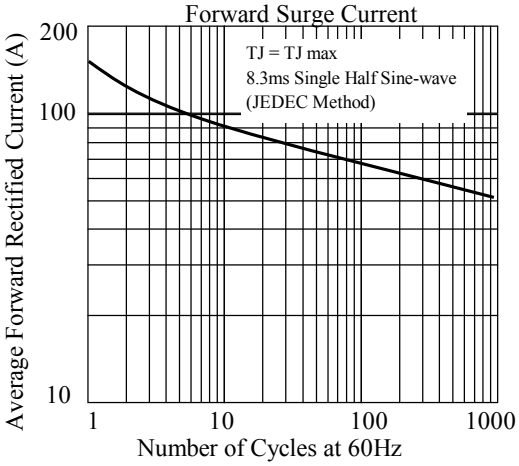


Fig 3. – Typical Instantaneous Forward Characteristics

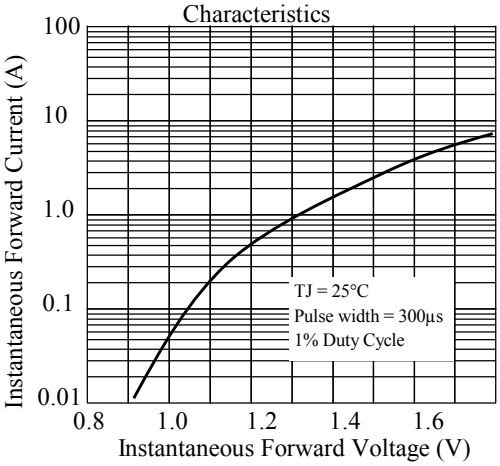


Fig 4. – Typical Reverse Characteristics

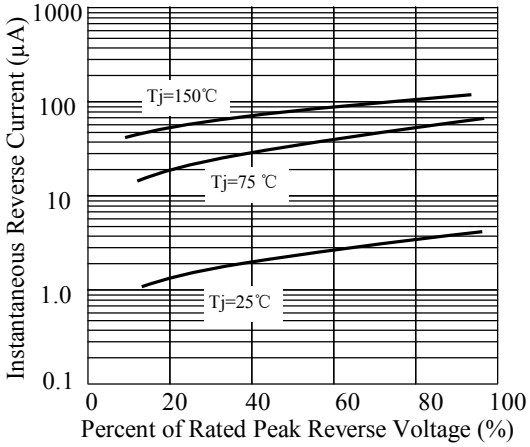


Fig 5. – typical transient thermal impedance

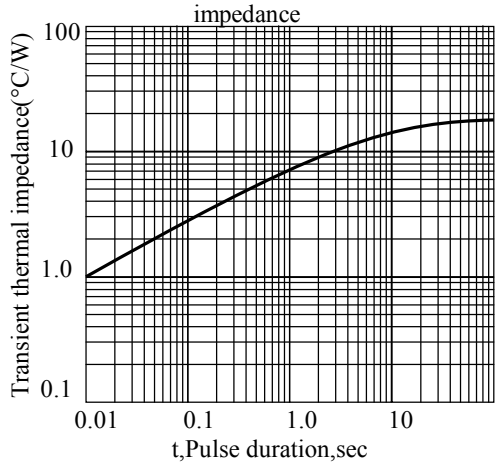
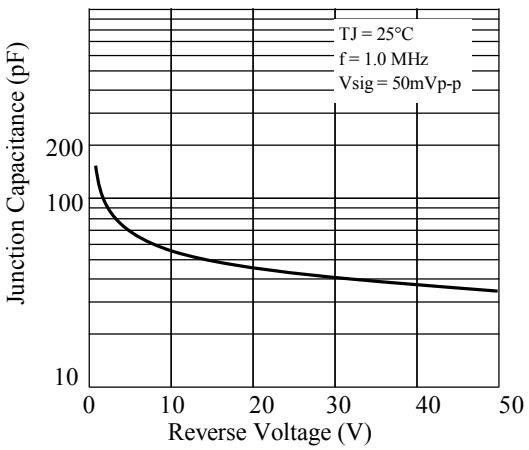


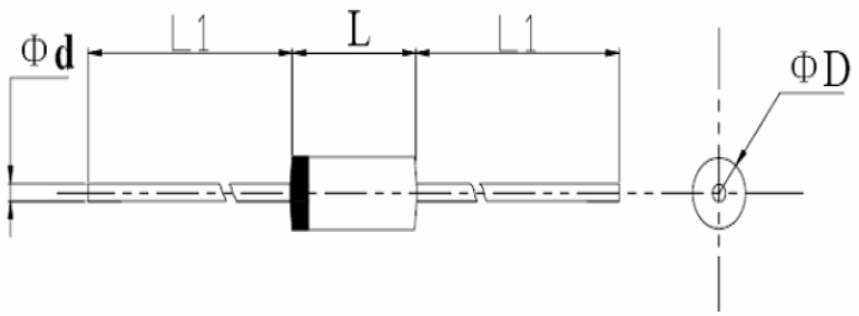
Fig 6. – Typical Junction Capacitance



LUR680 thru LUR6100

3. dimension:

Package outline

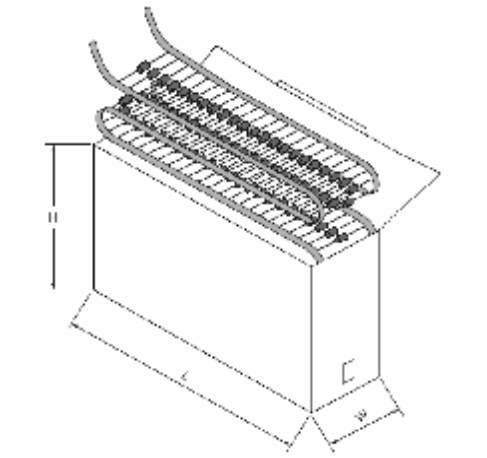


Dimensions					Note:
	inches		mm		R-6
	Min.	Max.	Min.	Max.	molded plastic case
L	0.335	0.375	8.5	9.5	The marking band indicates the
L1	1.0	-	25.4	-	cathode
ΦD	0.335	0.375	8.5	9.5	
Φd	0.048	0.052	1.2	1.3	

标题： 塑封生产线轴向产品包装规范	文件编号： WI-250
	第 4 版 第 0 次修改
	第 1 页

1 弹带盒装 ammo and box

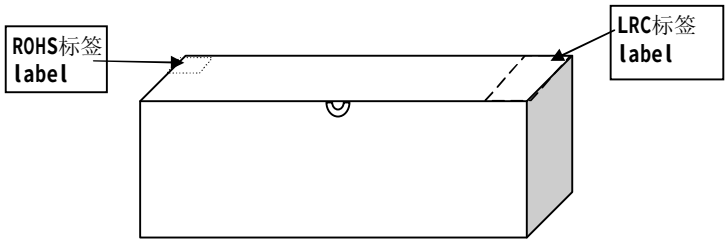
1.1. 弹带盒规格 ammo spec.



单位：mm

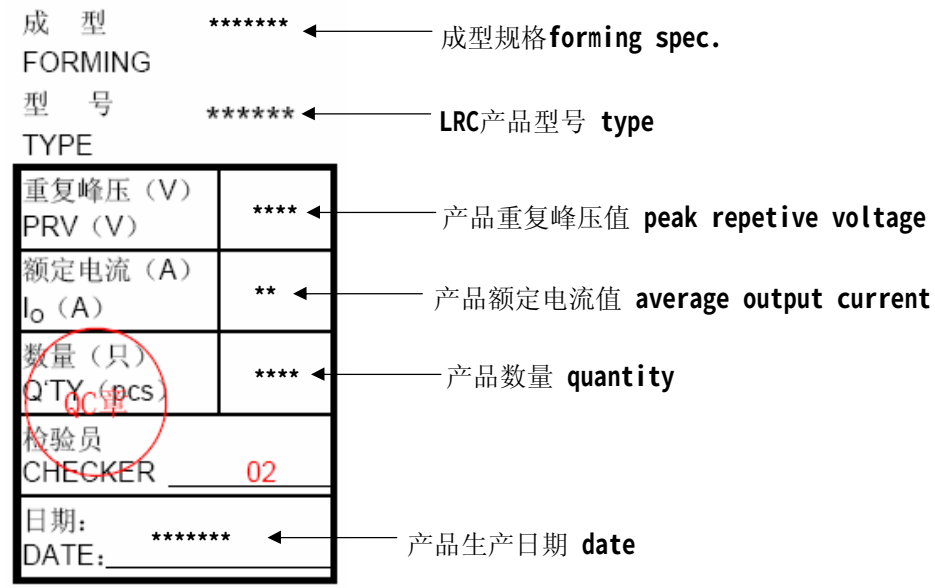
	L	W	H
T52	262±2	76±2	90±2

1.2 弹带内盒要求 inner box spec.



1.4 标签要求 label spec.

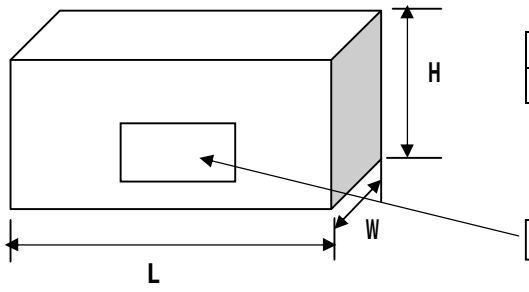
1.4.1 LRC标签 LRC label



1.4.2环保标签 environmental protection label



2.外箱规格 cartoon spec.



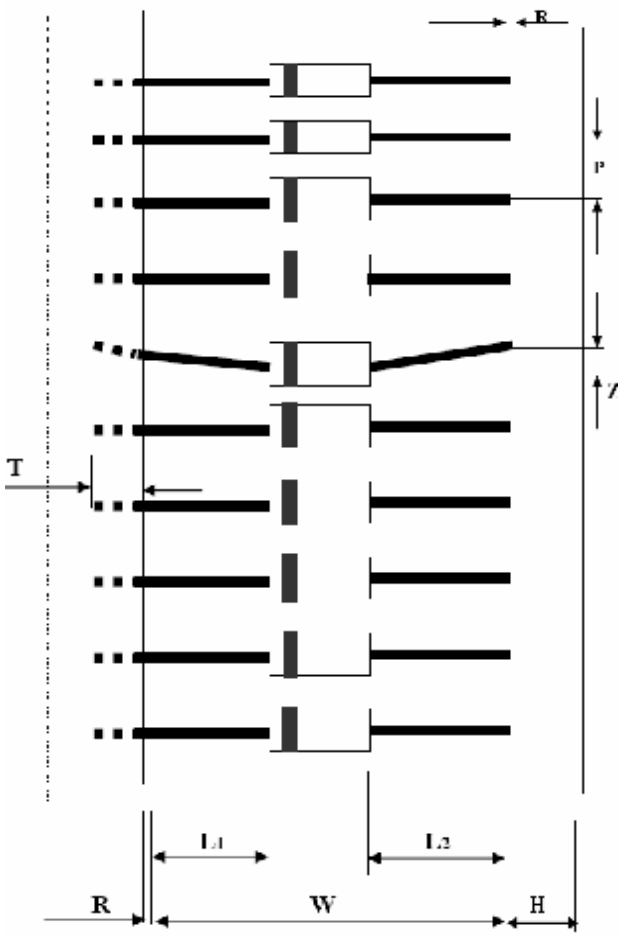
单位：mm

	L	W	H
T52	430±2	280±2	225±2

3 按以上包装方式，编带数量和外包装箱产品数量：typing and cartoon spec.

	塑封外型
	R-6
每根编带数量 quantity/ammo	0.4K
外箱数量（T52编带） quantity/cartoon	4.0K

4 编带规格 brede spec



尺寸代号	编带尺寸 typing dimension
	52/tape#
W	52 -1.0/+2.0
P	20±0.5
L1-L2	＜1.2
H	6±1.0
Z	＜1.0
R	＜1.0
T	＞3.5

1. 红白编带厚度为0.05mm；两种胶带各自之间无明显色差；编带要求均为胶带。
   The typing thickness is 0.05mm and color is obvious difference
2. 两端引带20~40cm. Typing lead over 20~40cm
3. 红色编带一端为二极管“负极”；白色编带一端为二极管“正极”。
   red color is cathode ,white color is anode
4. 无卤 green epoxy compound（无卤产品才贴HF only）

Green

4、版式次更新记录

版次	更新记录	更新作者	更新日期
1	第一版	周杰	**2011-10-10**