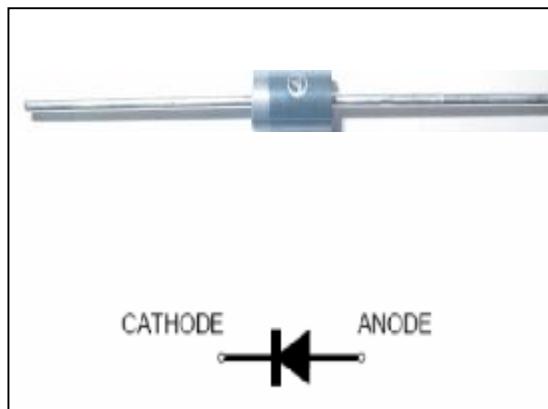


LUR180 thru LUR1100

Glass Passivated Junction Ultra Fast Rectifiers
Reverse Voltage 800 to 1000V Forward Current 1.0A

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



Mechanical Data

Case: JEDEC DO-41, molded plastic over glass 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 Precaution: None

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

Parameter Symbol	symbol	LUR180	LUR1100	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)	1.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30		A
Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead lengths at $T_A = 75^\circ\text{C}$	IR(AV)	100		μA
Typical thermal resistance (Note 2)	$R_{\theta JA}$	60		$^\circ\text{C}/\text{W}$
Operating junction and storage temperature range	TJ, TSTG	-65 to +150		$^\circ\text{C}$

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

Parameter Symbol	symbol	LUR180	LUR1100	Unit
Maximum Instantaneous Forward Voltage (IF = 1.0 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

LUR180 thru LUR1100

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

Fig. 1 - Forward Current Derating Curve

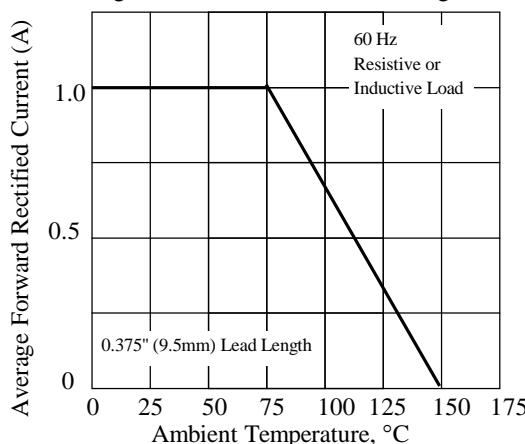


Fig. 3. - Typical Instantaneous Forward Characteristics

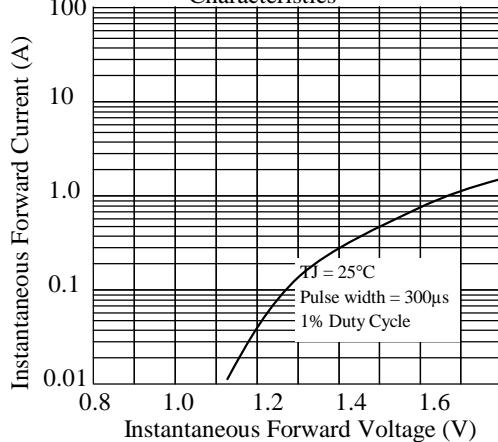


Fig. 5. - typical transient thermal impedance

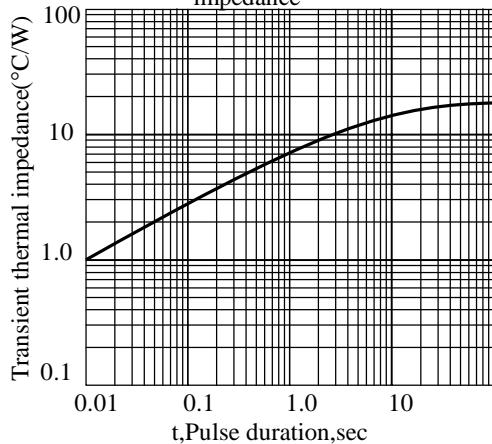


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

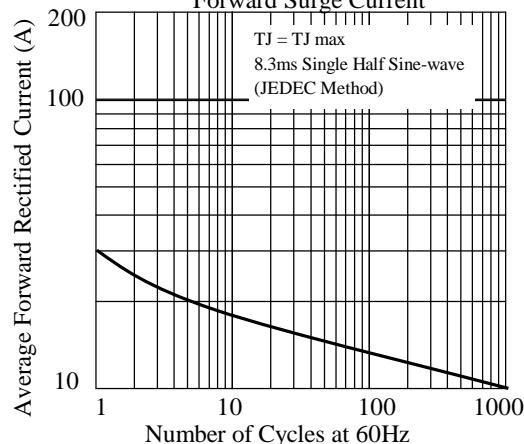


Fig. 4. - Typical Reverse Characteristics

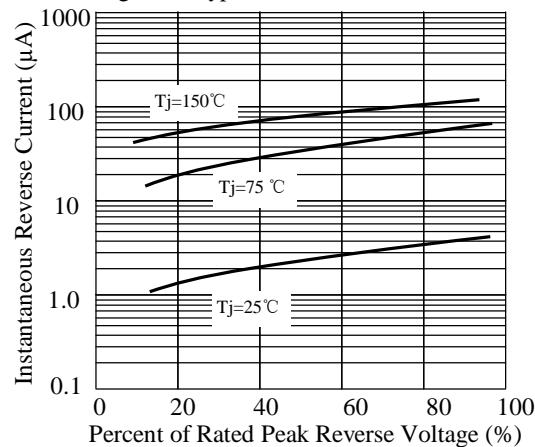
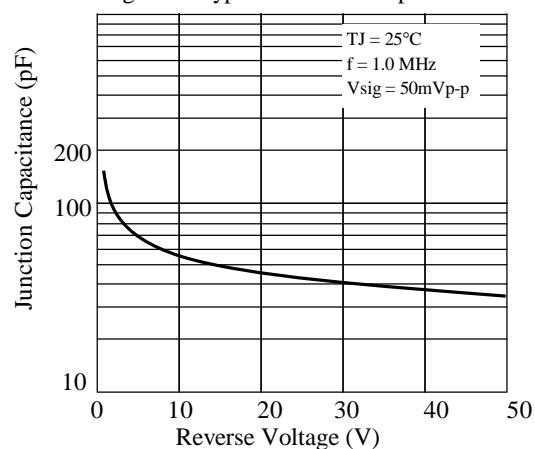


Fig. 6. - Typical Junction Capacitance





乐山无线电股份有限公司
Leshan Radio Company, Ltd

LUR180 thru LUR100

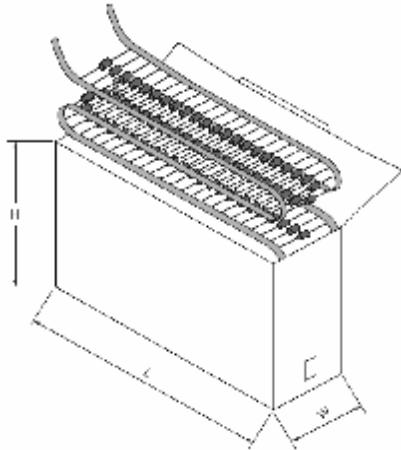
3. dimension:

Package outline					
				Dimensions	
	inches		mm		Note: DO-41 molded plastic case The marking band indicates the cathode
L	Min.	Max.	Min.	Max.	
0.166	0.205		4.2	5.2	
L1	1.0	-	25.4	-	
ΦD	0.080	0.107	2.0	2.7	
Φd	0.028	0.034	0.7	0.9	

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

1 弹带盒装 ammo and box

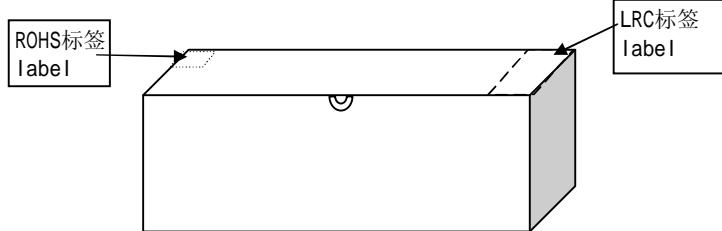
1.1. 弹带盒规格 ammo spec.



单位: mm

	L	W	H
T52	262±2	76±2	90±2
T42	262±2	64±2	90±2
T26	250±3	45±3	95±3

1.2 弹带内盒要求 inner box spec.



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 2 页

1.4 标签要求 label spec.

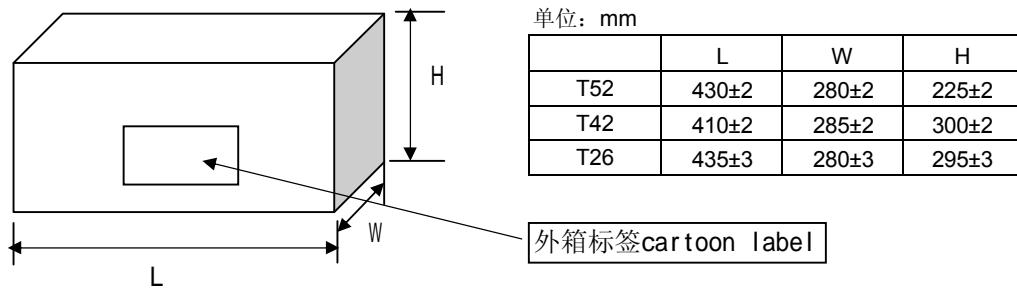
1.4.1 LRC标签 LRC label

成 型	*****	成型规格 forming spec.
FORMING		
型 号	*****	LRC产品型号 type
TYPE		
重复峰压 (V)	****	产品重复峰压值 peak repetitive voltage
PRV (V)		
额定电流 (A)	**	产品额定电流值 average output current
I _o (A)		
数量 (只)	****	产品数量 quantity
Q'TY (pcs)		
QC单		
检验员		
CHECKER	02	
日期:	*****	产品生产日期 date
DATE:		

1.4.2 环保标签 environmental protection label



2.外箱规格 cartoon spec.

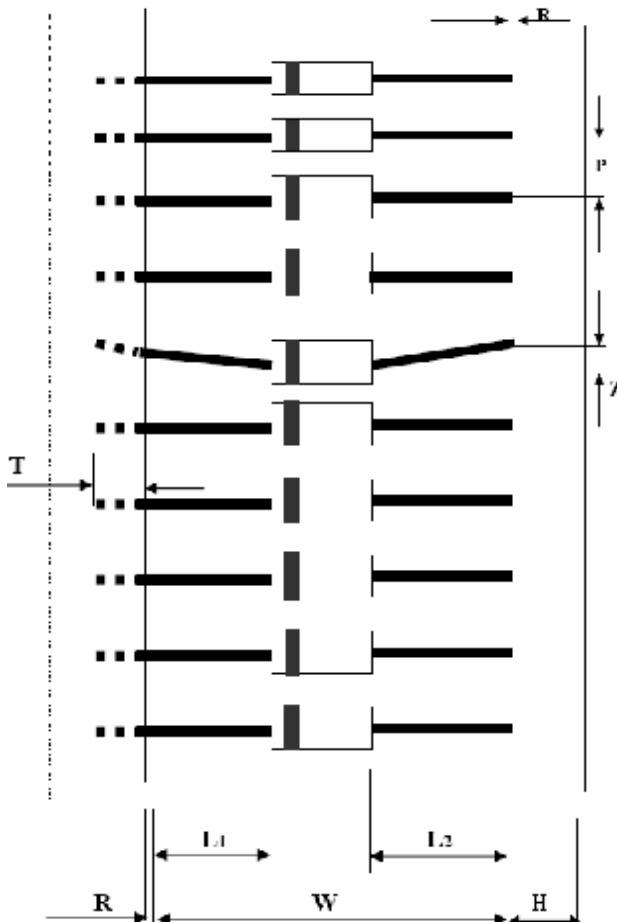


3 按以上包装方式, 编带数量和外包装箱产品数量: typing and cartoon spec.

	塑封外型			
	A-405 & DO-41 & R-1	R-3	DO-15	DO-201AD
每根编带数量 quantity/ammo	3K	1.8K	2K(T52) 1.8K(T26)	0.8K
外箱数量 (T52编带) quantity/cartoon	30K	18K	20K	8.0K
外箱数量 (T26编带) quantity/cartoon	60K	36K	36K	-
外箱数量 (T42编带) quantity/cartoon	54K	32.4K	36K	-

标题:	文件编号: WI-250
塑封生产线轴向产品包装规范	第 4 版 第 0 次修改
	第 3 页

4 编带规格 brede spec



尺寸代号	编带尺寸 typing dimension					
	26/tape	35/tape	40/tape	42/tape	52/tape	52/tape#
W	26 0.0/+1.6	35 -1.0/+0.5	40 -1.0/+0.5	42 -1.0/+1.0	52 -1.0/+2.0	52 -1.0/+2.0
P	5±0.5	5±0.5	5±0.5	5±0.5	5±0.5	10±0.5
L1-L2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
H	6±1.0	6±1.0	6±1.0	6±1.0	6±1.0	6±1.0
Z	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
R	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
T	>3.5	>3.5	>3.5	>3.5	>3.5	>3.5

注: 52编带# 为DO-201AD编带规格 "52编带#" just for D0-201AD

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



乐山无线电股份有限公司
Leshan Radio Company, Ltd

LUR180 thru LUR100

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Leshan manufacturer:

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [BAV17-TR](#) [BAV19-TR](#) [1N3611](#) [NTE156A](#) [NTE574](#) [NTE6244](#) [1SS181-TP](#)
[1SS400CST2RA](#) [SDAA13](#) [SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914B](#) [1N914BTR](#) [1SS226-TP](#)
[RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-7-F](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4153-1](#)
[JAN1N4454-1](#) [JAN1N4454UR-1](#) [LL4151-GS18](#) [053684A](#) [SMMSD4148T3G](#) [707803H](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#) [LL4150-M-08](#)
[1N4454-TR](#) [BAV199E6433HTMA1](#) [BAV70HDW-7](#) [BAS28-7](#) [JANTX1N6640](#) [BAW56HDW-13](#) [BAS28 TR](#) [VS-HFA04SD60STR-M3](#)
[NSVM1MA152WKT1G](#) [1SS388-TP](#) [RGP30D-E3/73](#) [VS-8EWF02S-M3](#)