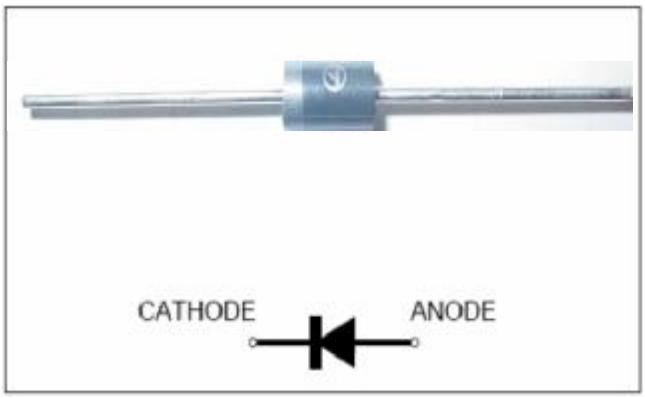
1N5817 thru 1N5819

Schottky Barrier Rectifiers
Reverse Voltage 20 to 40V Forward Current 1.0A

Feature & Dimensions

* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
* Low power loss,high efficiency
* For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
* Guarding for over voltage protection
* High temperature soldering guaranteed: 260°C/10 seconds at terminals



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: 0.011 oz., 0.284 g
Handling precautin:None

We declare that the material of product compliance with ROHS requirements

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

Parameter Symbol	symbol	1N5817	1N5818	1N5819	Unit
device marking code		1N5817	1N5818	1N5819	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum RSM voltage	V_{RSM}	14	21	28	V
Maximum DC blocking voltage	V_{DC}	20	30	40	V
Maximum average forward rectified current 0.375" (9.5mm) lead length (See fig. 1)	IF(AV)	1.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25			A
Typical thermal resistance (Note 1)	RθJA	50			°C/W
Operating temperature range	TJ	–40 to +150			°C
storage temperature range	TSTG	–40 to +175			°C

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

Parameter Symbol	symbol	1N5817	1N5818	1N5819	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	0.45	0.55		V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR	1.0 10			mA
Typical junction capacitance at 4.0V, 1MHz	CJ	110			PF

NOTES:
1. Thermal resistance from junction to ambient at 0.375” (9.5mm) lead length, P.C.B. mounted

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

Fig. 1 – Forward Current Derating Curve

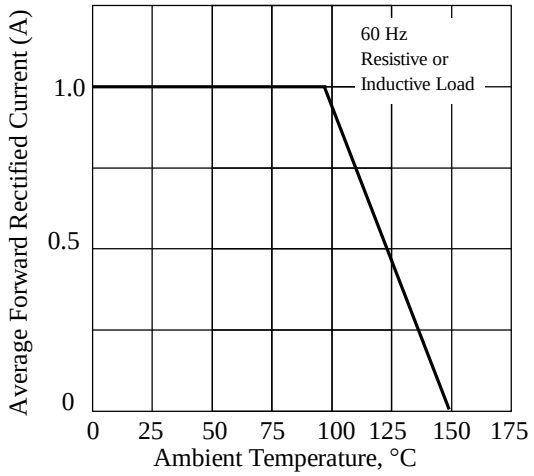


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

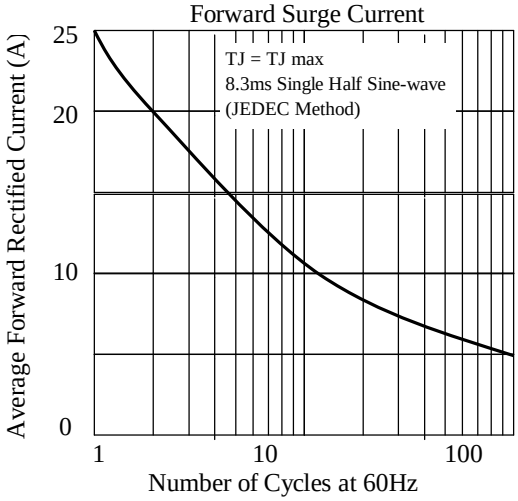


Fig 3. – Typical Instantaneous Forward Characteristics

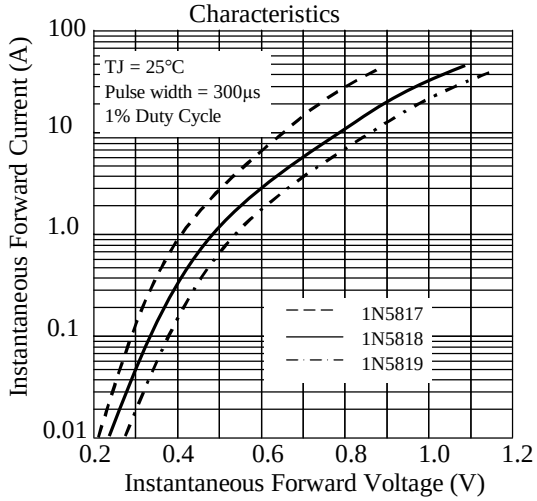


Fig 4. – Typical Reverse Characteristics

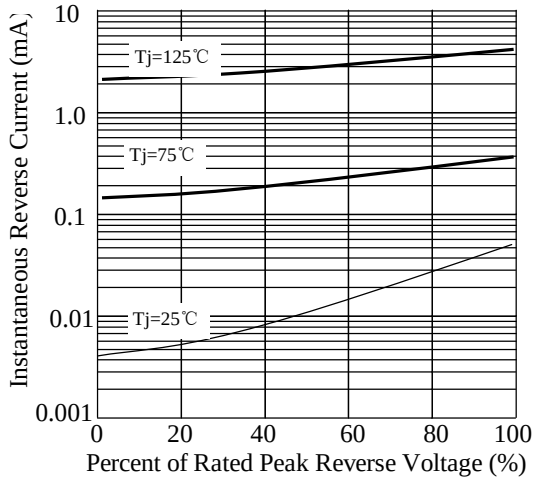


Fig 5. – typical transient thermal impedance

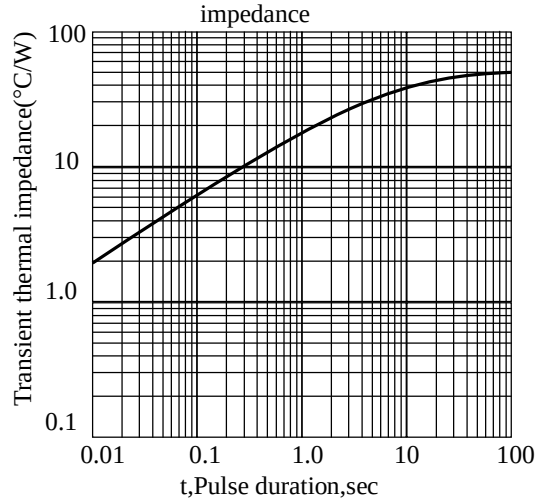
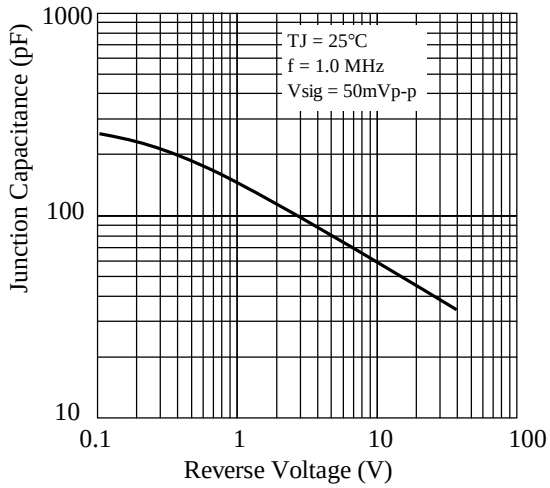


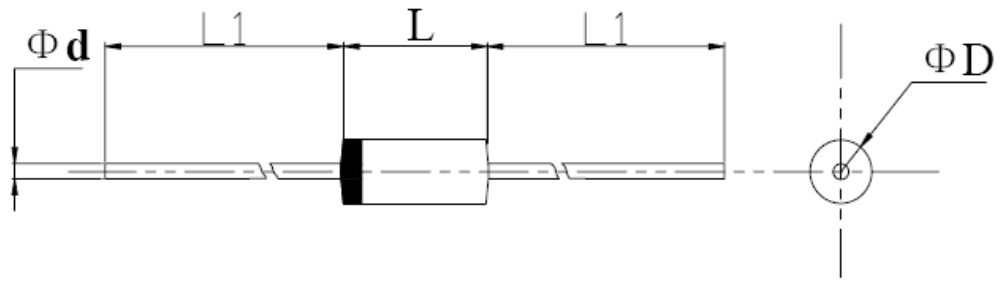
Fig 6. – Typical Junction Capacitance



1N5817 thru 1N5819

3. dimension:

Package outline

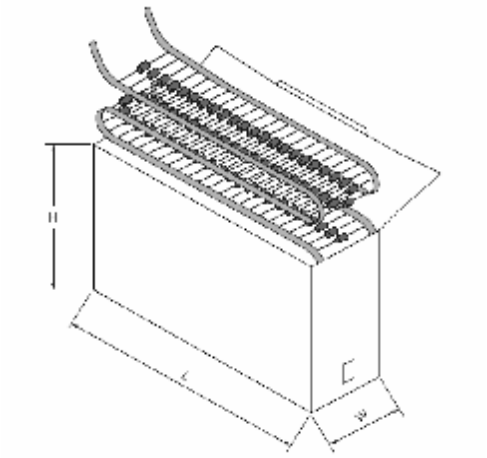


Dimensions					Note:
	inches		mm		DO-41
	Min.	Max.	Min.	Max.	molded plastic case
L	0.166	0.205	4.2	5.2	The marking band indicates the cathode
L1	1.0	-	25.4	-	
ΦD	0.080	0.107	2.0	2.7	
Φd	0.028	0.030	0.7	0.8	

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

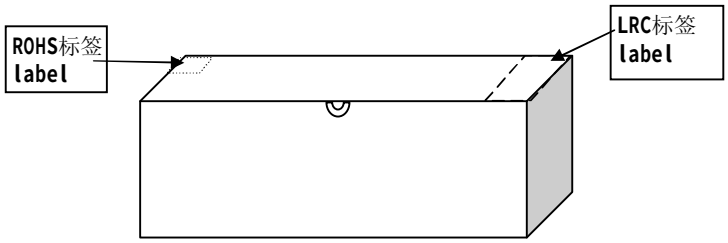
1.1. 弹带盒规格 ammo spec.



单位：mm

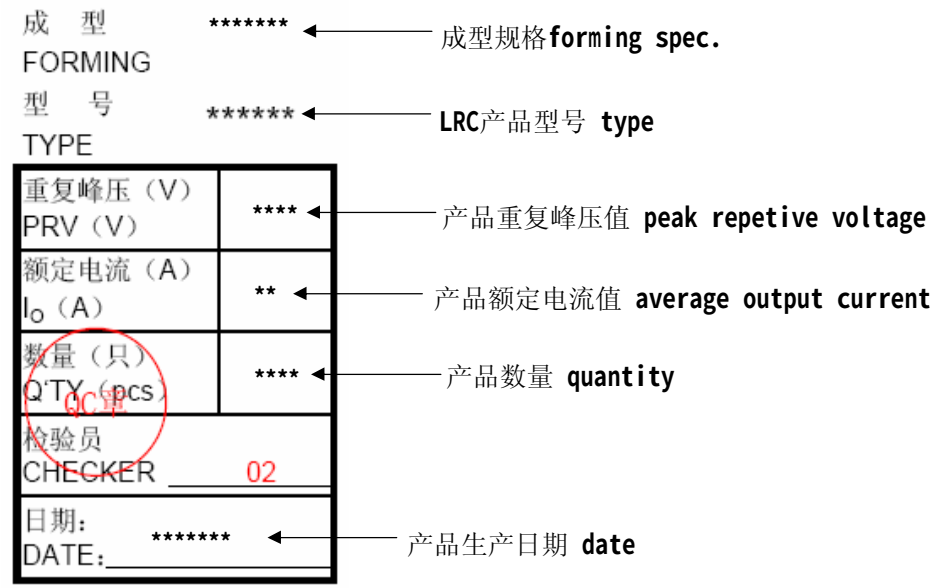
	L	W	H
T52	262±2	76±2	90±2
T42	262±2	64±2	90±2
T26	250±3	45±3	95±3

1.2 弹带内盒要求 inner box spec.



1.4 标签要求 label spec.

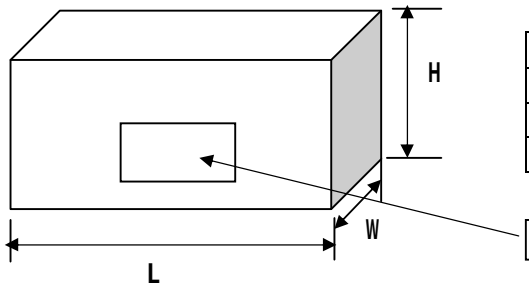
1.4.1 LRC标签 LRC label



1.4.2环保标签 environmental protection label



2.外箱规格 cartoon spec.



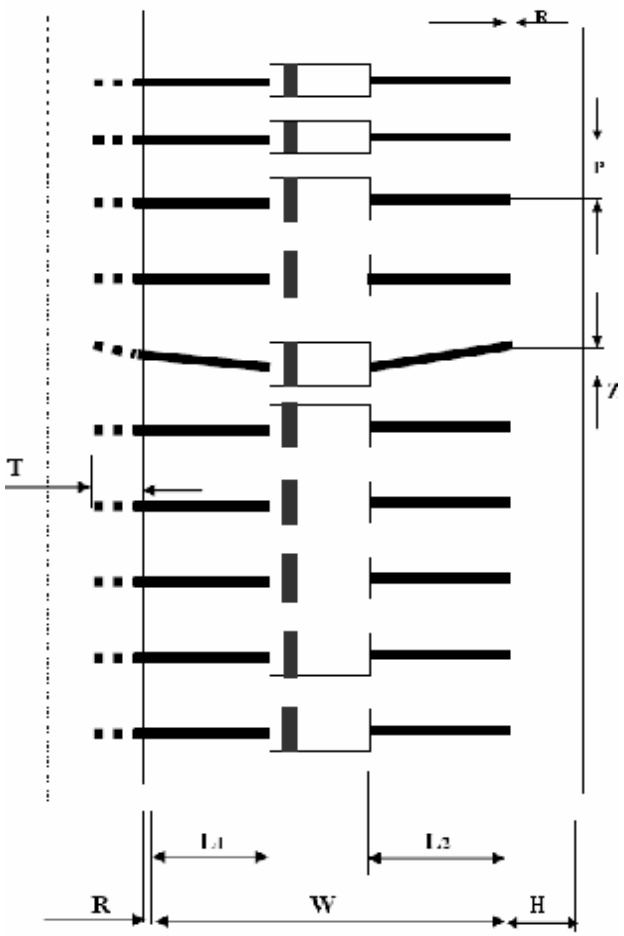
单位：mm

	L	W	H
T52	430±2	280±2	225±2
T42	410±2	285±2	300±2
T26	435±3	280±3	295±3

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	-

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

1N5817 thru 1N5819

4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	余波	2010.5.26
2	调整结温为150度	周杰	2010.09.24
3	增加包装规范；调整编带L1-L2为小于1.0mm	周杰	2011.08.12