

Schottky Barrier Rectifiers Reverse Voltage 20 to 40V Forward Current 3.0A

Feature & Dimensions

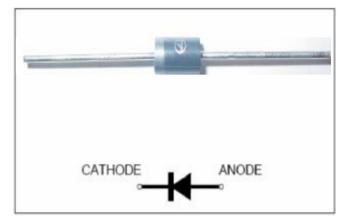
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- * Low power loss, high efficiency
- * For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
- * Guarding for overvoltage protection
- * High temperature soldering guaranteed: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

Mechanical Data

Case: JEDEC DO-201AD, 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: 0.038oz., 1.03 g Handling precaution:None



We declare that the material of product compliance

with ROHS requirements

1.Electrical Characteristic

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

Parameter Symbol	symbol	1N5820	1N5821	1N5822	Unit
device marking code		1N5820	1N5821	1N5822	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	٧
Maximum RMS voltage	V _{RMS}	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)	3.0			А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80			А
Typical thermal resistance (Note 1)	RθJA	50			°C/W
Operating junction and storage temperature range	TJ, TSTG	-40 to +125			°C

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

Parameter Symbol	symbol	1N5820	1N5821	1N5822	Unit
Maximum instantaneous forward voltage at 3.0A	V_{F}	0.475	0.500	0.53	V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR	2.0 20			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



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

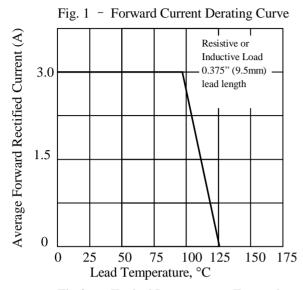


Fig 3. - Typical Instantaneous Forward Characteristics

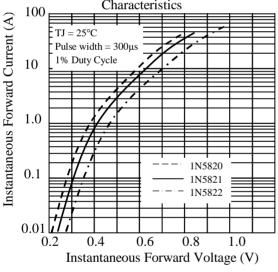


Fig 5. - typical transient thermal

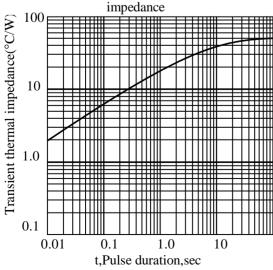


Fig. 2 - Maximum Non-repetitive Peak

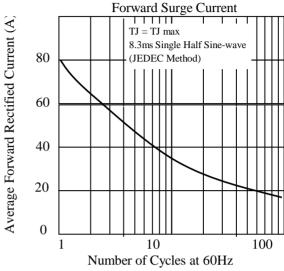
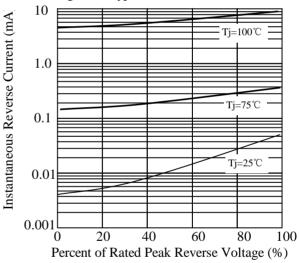
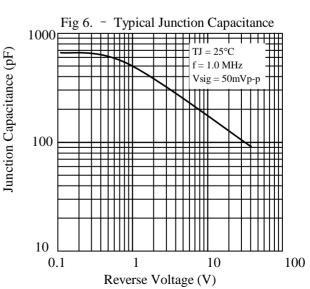


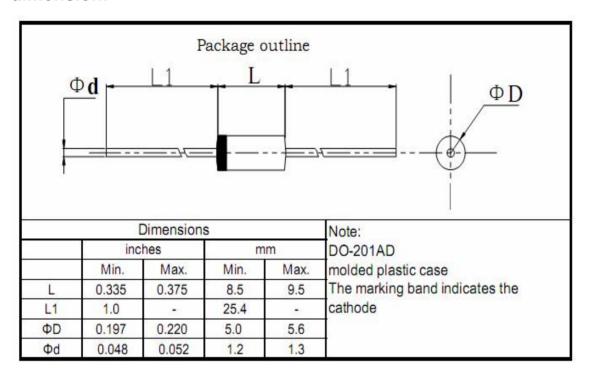
Fig 4. - Typical Reverse Characteristics







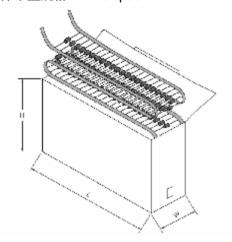
3. dimension:





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

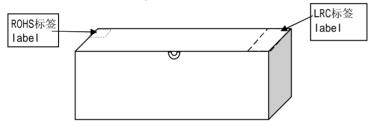
- 1 弹带盒装 ammo and box
- 1.1. 弹带盒规格 ammo spec.



单位: mm

	L	W	Н
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.



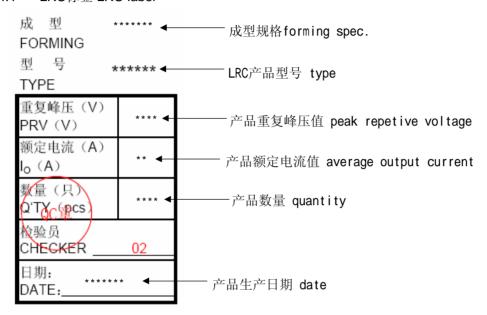


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 塑封生产线轴向产品包装规范
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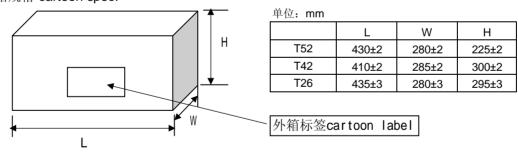
- 1.4 标签要求 label spec.
- 1.4.1 LRC标签 LRC label



1.4.2环保标签 environmental protection label



2.外箱规格 cartoon spec.



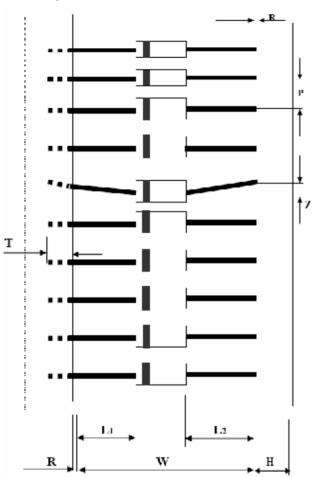
3 按以上包装方式,编带数量和外包装箱产品数量: typing and cartoon spec.

	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	-	



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4 编带规格 brede spec



	编带尺寸 typing dimension					
尺寸代号	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
Р	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
Н	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)





4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2011.09.16