

## Fast Switching High Voltage Rectifiers Reverse Voltage 1200V & 1600 Forward Current 1.0A

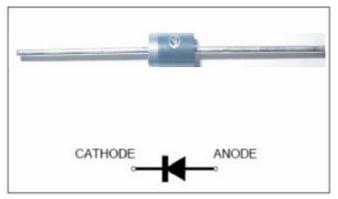
#### **FEATURES**

- Plastic package has Underwriters Laboratory
   Flammability Classification 94V-0
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* Easily cleaned with Freon, Alcohol and similar solvents
- \* High temperature metallurgically bonded construction
- \* GPP chip
- \* Capable of meeting environmental standards of MIL-S-19500
- \* High temperature soldering guaranteed: 260°C/10 seconds



Case: JEDEC DO-41, molded plastic body 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.

	<del>_</del>	·	· · · · · · · · · · · · · · · · · · ·	
Parameter Symbol	symbol	HF1200G	HF1600G	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	1200	1600	V
Maximum RSM voltage	$V_{RSM}$	840	1120	V
Maximum DC blocking voltage	$V_{DC}$	1200	1600	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> = 75°C	IF(AV)	1		А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30		А
Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead lengths at $T_A = 75$ °C	IR(AV)	100		μΑ
Typical thermal resistance (Note 2)	RθJA	55		°C/W
Operating junction and storage temperature range	TJ, TSTG	-50 to +150		°C

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

9-				
Parameter Symbol	symbol	HF1200G	HF1600G	Unit
Maximum instantaneous forward voltage at 0.5A	V <sub>F</sub>	3.4		V
Maximum DC reverse current TA = 25°C	IR	5.	0	μA
at rated DC blocking voltage TA = 125°C	IIX	10	0	μΛ
Maximum reverse recovery time (Note 1)	TRR	75	5	ns
Typical junction capacitance at 4.0V, 1MHz	CJ	15	5	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



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

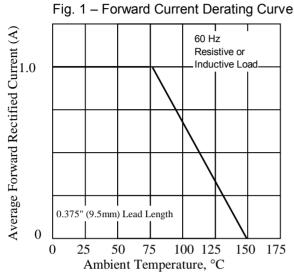


Fig 3. – Typical Instantaneous Forward

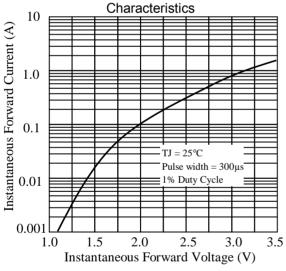


Fig 5. –typical transient thermal

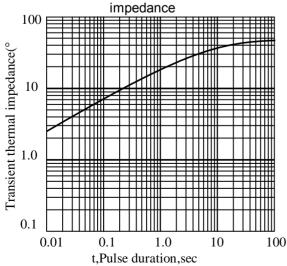


Fig. 2 – Maximum Non-repetitive Peak

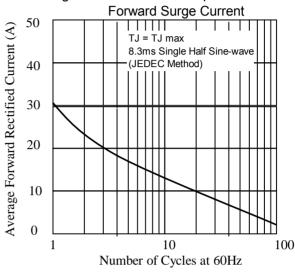


Fig 4. - Typical Reverse Characteristics

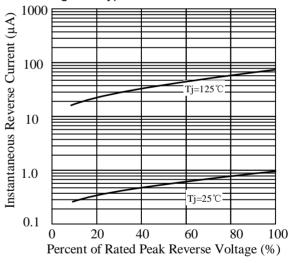
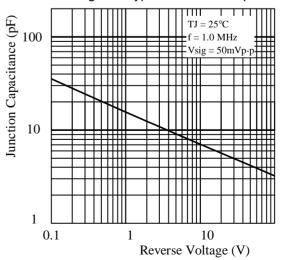
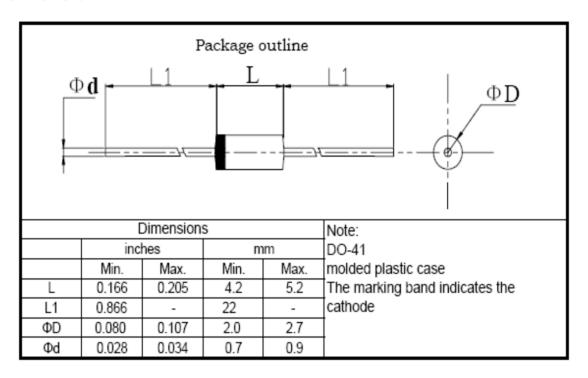


Fig 6. - Typical Junction Capacitance





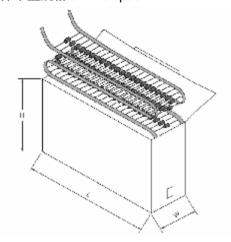
#### 3. dimension:





# 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

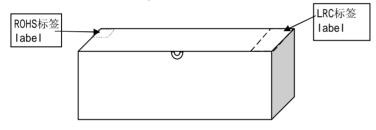
- 1 弹带盒装 ammo and box
- 1.1. 弹带盒规格 ammo spec.



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.



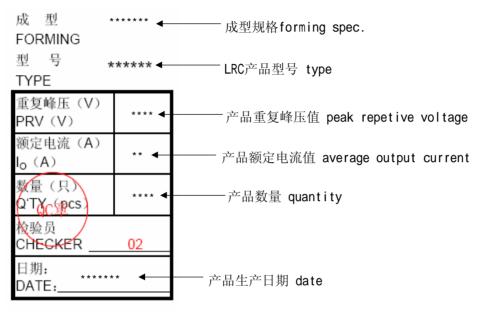


 标题:
 文件编号: WI-250

 塑封生产线轴向产品包装规范
 第 4 版 第 0 次修改

 第 2 页

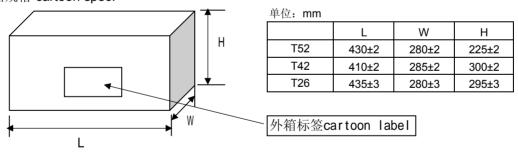
- 1.4 标签要求 label spec.
- 1.4.1 LRC标签 LRC label



1.4.2环保标签 environmental protection label



2.外箱规格 cartoon spec.



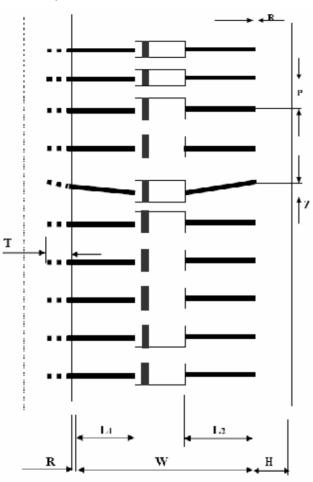
3 按以上包装方式,编带数量和外包装箱产品数量: typing and cartoon spec.

	塑封外型				
	A-405 & DO-41 & R-1	R-3	DO-15	DO-201AD	
每根编带数量 quantity/ammo	зк	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



	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
Т	>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	2010.06.17
2	增加包装规范	周杰	2011.08.15