

6A05GG thru 6A10G

Glass Passivated Junction General Purpose Plastic Rectifiers Reverse Voltage 50 to 1000V Forward Current 6.0A

FEATURES

- * Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- * Construction utilizes void-free molded plastic technique
- * Low reverse leakage
- * High forward surge capability
- * Cavity-free glass passivated junction
- * High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC R-6, 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: 0.042 oz., 1.19 g

Handling precaution: None

1. Electrical Characteristic

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

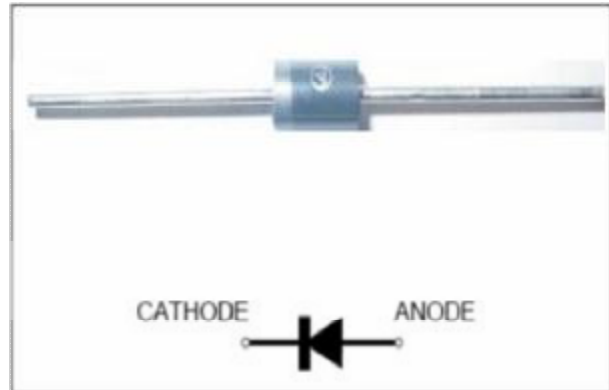
Parameter Symbol	symbol	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	Unit
device marking code		6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RSM voltage	V_{RSM}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead lengths at $T_A = 70^\circ\text{C}$	$I_{R(AV)}$	100							μA
Typical thermal resistance (Note 1)	$R\theta_{JA}$	20							$^\circ\text{C}/\text{W}$
Maximum DC blocking voltage temperature	T_A	125							$^\circ\text{C}$
Operating junction and storage temperature range	TJ, TSTG	-50 to +150							$^\circ\text{C}$

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

Parameter Symbol	symbol	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	Unit
Maximum instantaneous forward voltage at 6.0A	V_F	1.10							V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	IR	10							μA
Typical junction capacitance at 4.0V, 1MHz	CJ	30							PF

NOTES:

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



We declare that the material of product
compliance with ROHS requirements

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

Fig. 1 - Forward Current Derating

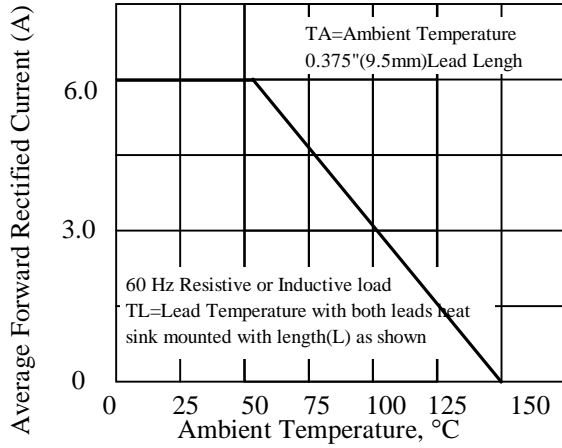


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

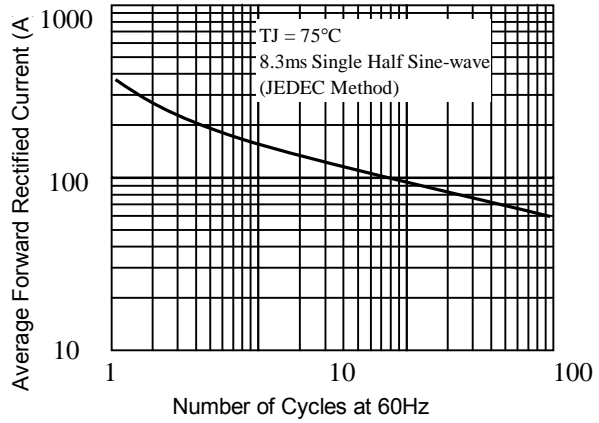


Fig. 3 - Typical Instantaneous Forward

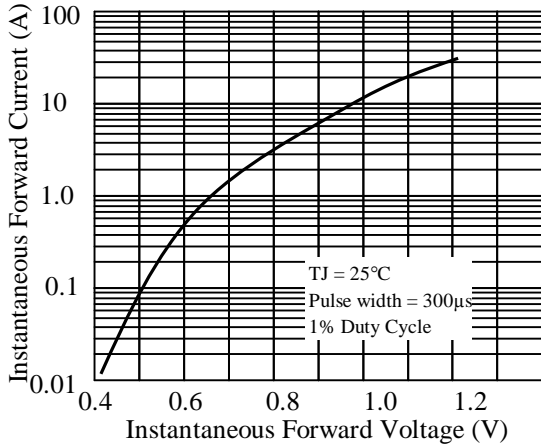


Fig. 4 - Typical Reverse Characteristics

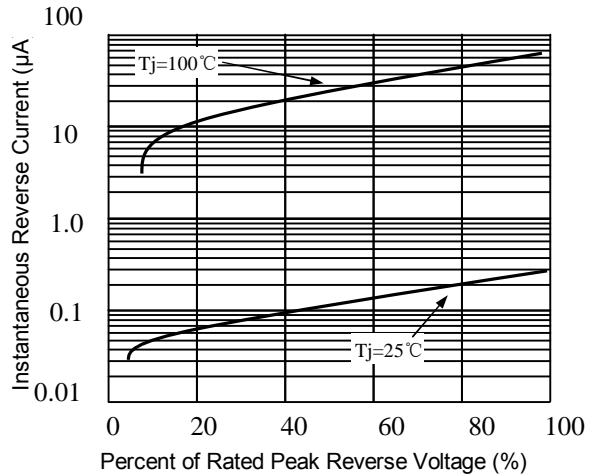


Fig. 5 - typical transient thermal impedance

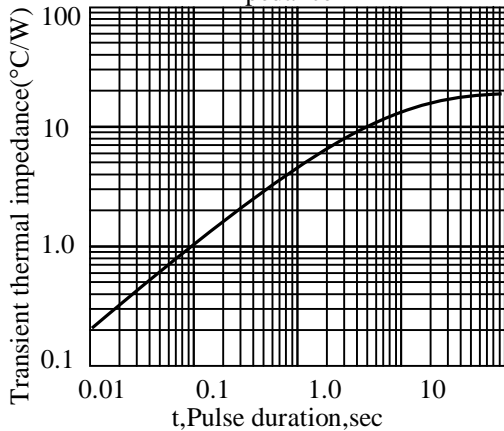
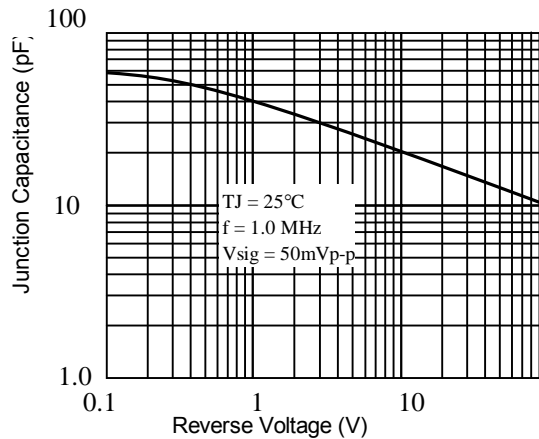
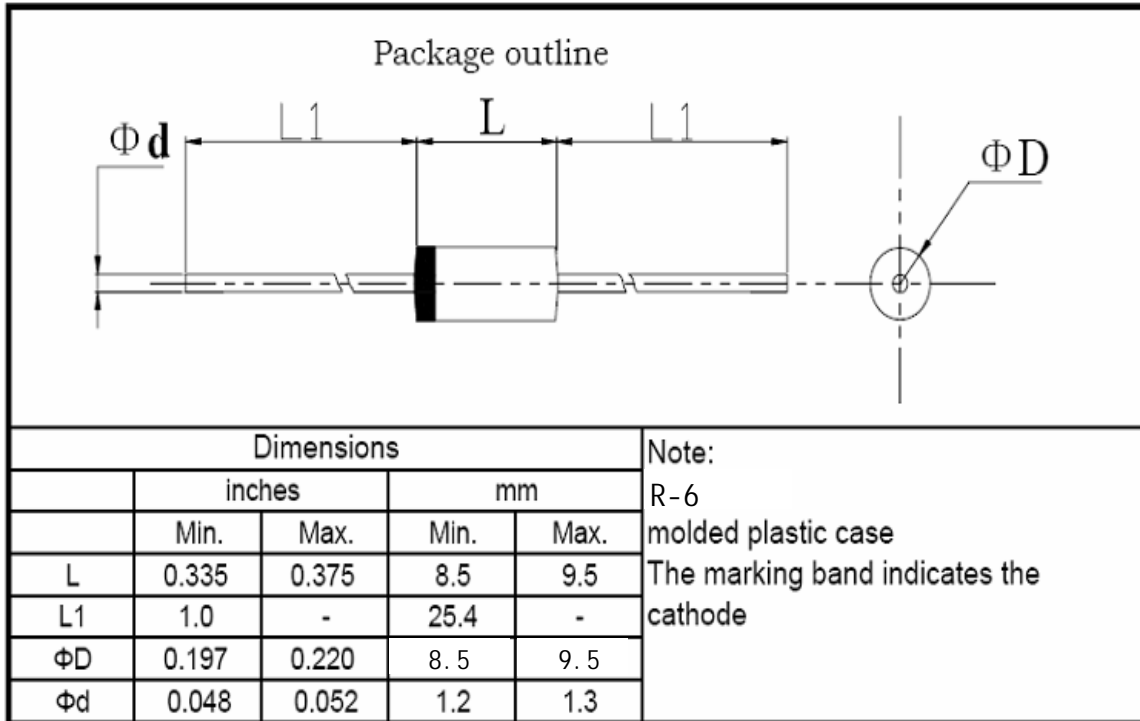


Fig. 6 - Typical Junction Capacitance



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3. dimension:



标题:

塑封生产线轴向产品包装规范

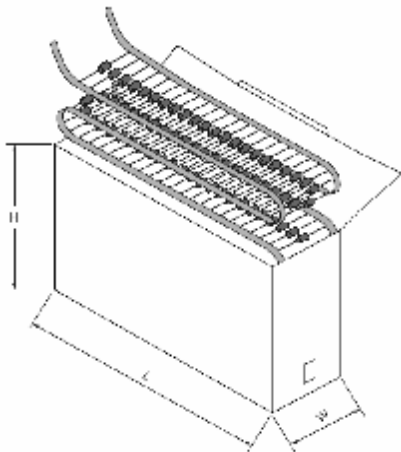
文件编号: WI-250

第 4 版 第 0 次修改

第 1 页

1 弹带盒装 ammo and box

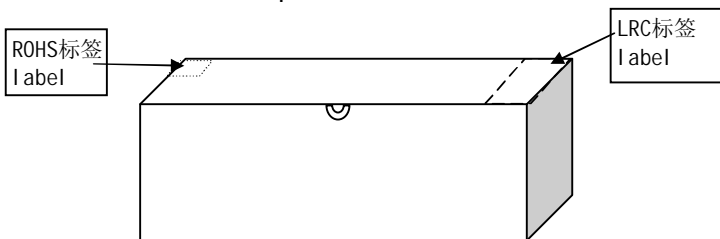
1.1. 弹带盒规格 ammo spec.



单位: mm

	L	W	H
T52	262±2	76±2	90±2

1.2 弹带内盒要求 inner box spec.



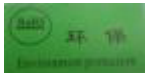
标题: 塑封生产线轴向产品包装规范	文件编号: WI-250
	第 4 版 第 0 次修改
	第 2 页

1.4 标签要求 label spec.

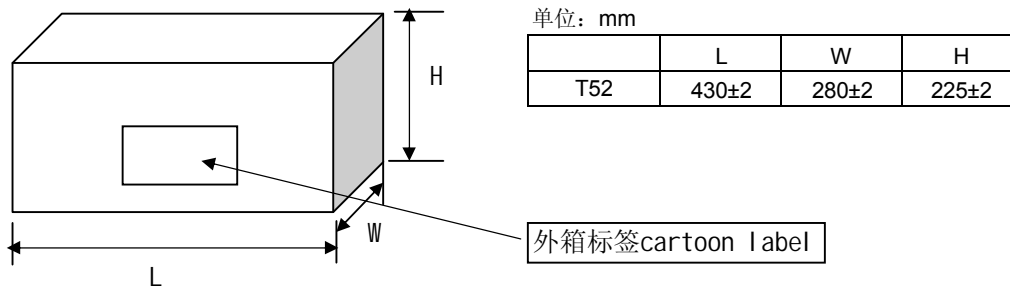
1.4.1 LRC标签 LRC label

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

1.4.2环保标签 environmental protection label



2.外箱规格 carton spec.



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

标题:

塑封生产线轴向产品包装规范

文件编号: WI-250

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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

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



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4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2011.07.06