

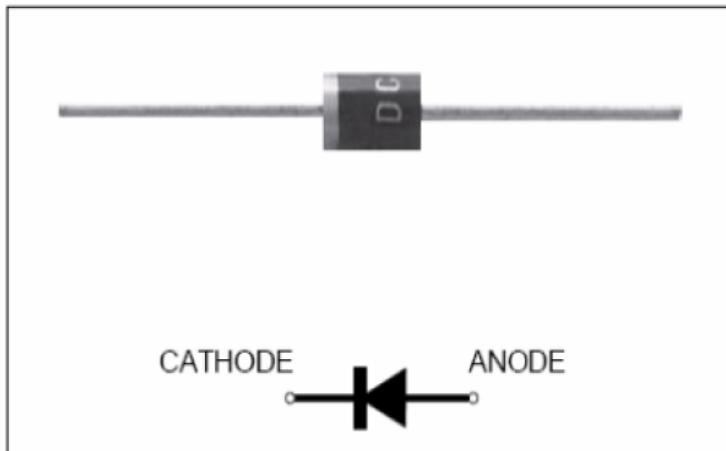
R3000 thru R5000

1. Feature & Dimensions

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

High Voltage General Purpose Plastic Rectifiers

**Reverse Voltage 3000 to 5000V
Forward Current 0.2A**



2. Mechanical Data

Case: JEDEC DO-15, molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.015oz., 0.42 g

Handling precaution: None

We declare that the material of product compliance with RoHS requirements.

3. Electrical Characteristic

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

Parameter Symbol	symbol	R 3000	R 4000	R 5000	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	3000	4000	5000	V
Maximum RMS voltage	V _{RMS}	2100	2800	3500	V
Maximum DC blocking voltage	V _{DC}	3000	4000	5000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A = 50°C	IF(AV)	0.2			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25	15		A
Typical thermal resistance (Note 1)	R _{θJA}	35		°C/W	
Operating junction and storage temperature range	T _J , T _{STG}	−50 to +150			°C

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

Parameter Symbol	symbol	R 3000	R 4000	R 5000	Unit
Maximum instantaneous forward voltage at IF(AV)	V _F	3.0	5.0		V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	I _R	5.0	100		μA
Typical junction capacitance at 4.0V, 1MHz	C _J	15			PF

NOTES:

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

4. Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

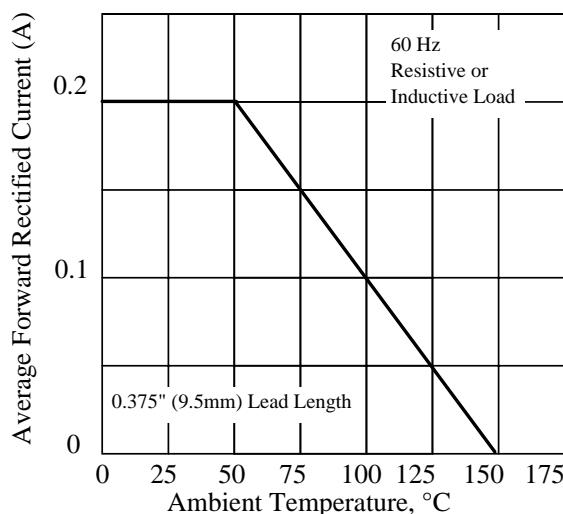


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

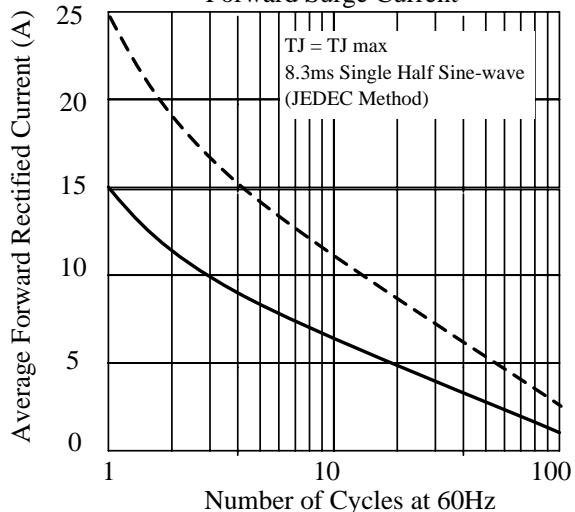


Fig. 3. - Typical Instantaneous Forward Characteristics

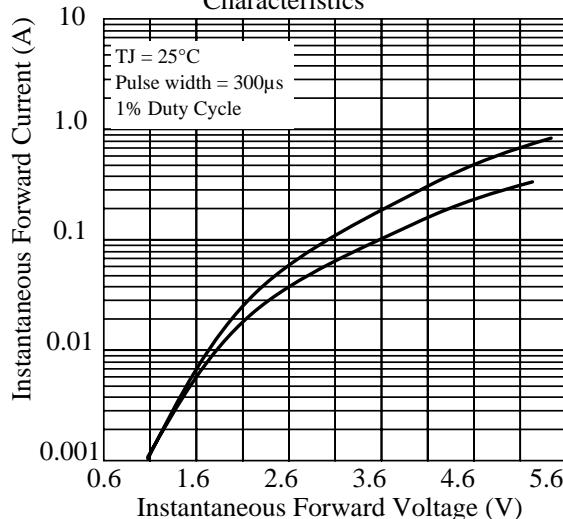


Fig. 4. - Typical Reverse Characteristics

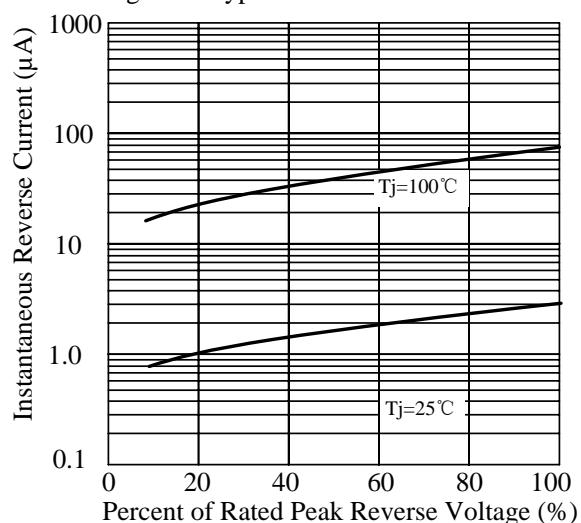


Fig 5. - typical transient thermal impedance

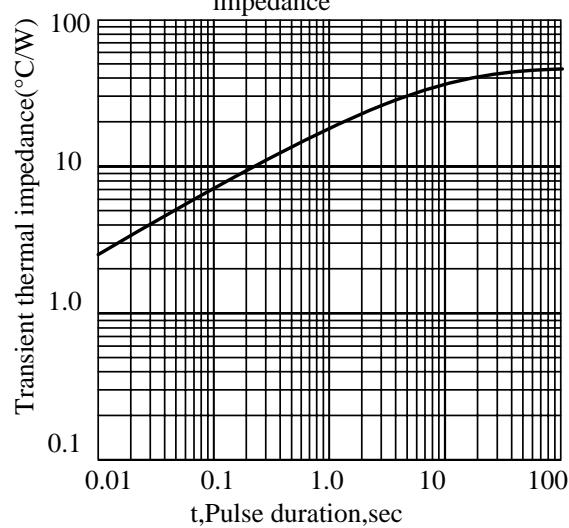
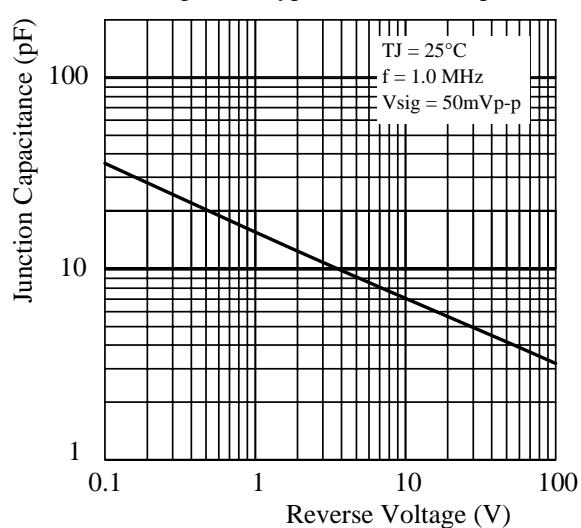
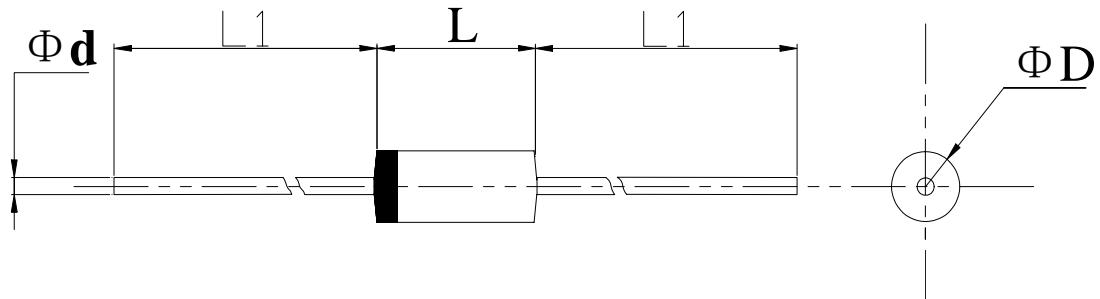


Fig 6. - Typical Junction Capacitance



5.Package Dimensions in inches and (millimeters)

Package outline



Dimensions				
	inches		mm	
	Min.	Max.	Min.	Max.
L	0.230	0.300	5.8	7.6
L1	1.0	-	25.4	-
ΦD	0.104	0.140	2.6	3.6
Φd	0.028	0.034	0.7	0.9

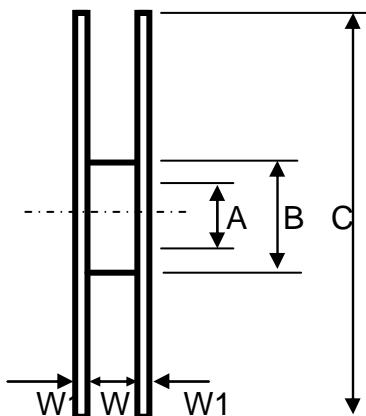
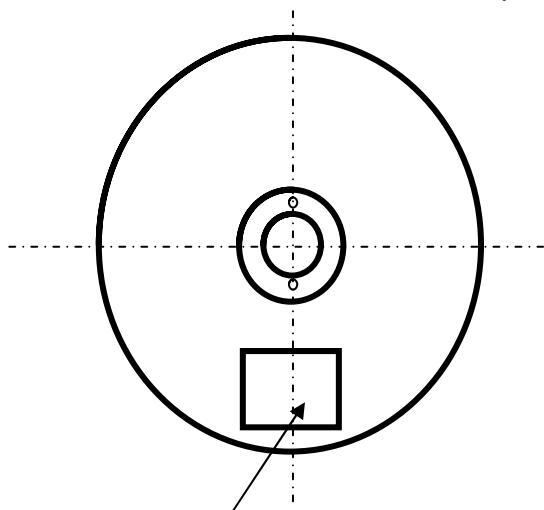
Note:
DO-15
molded plastic case
The marking band indicates the cathode

Packing Of Plastic-Sealed Axial Lead Diodes

1. 卷盘/Reel Packing (52mm)

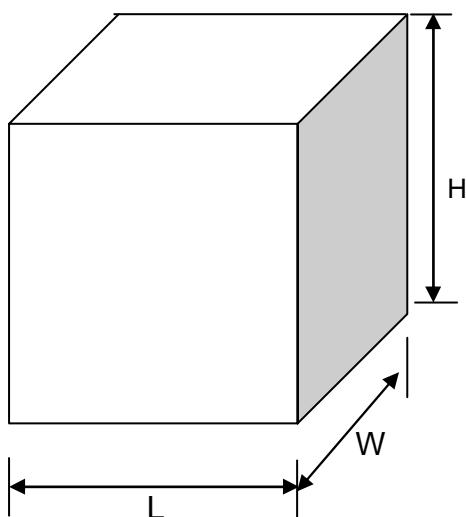
Unit:mm

A: 卷盘规格/Reel spec.



Item	Symbol	Dimension
Dimeter	A	76.4±0.1
	B	82.5±0.2
	C	330±0.5
Width	W	72±0.2
Thickness	W1	3±0.2

B: 外箱规格/Outer Box Specification



Item	Symbol	Dimension
Size	L	350±2
	W	350±2
	H	340±4

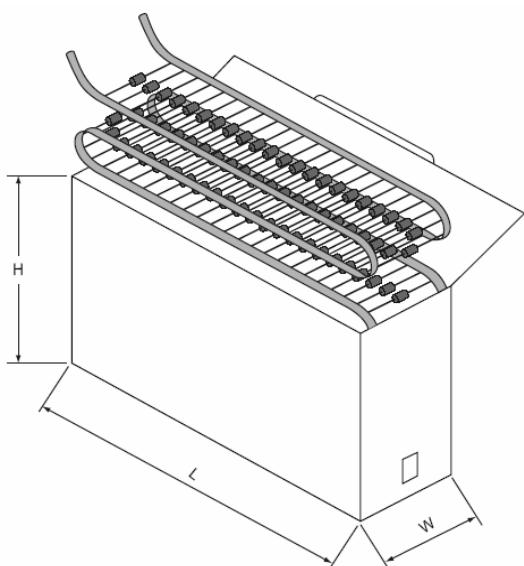
按以上包装方式: (As per the above spec)

	外型/Outside		
	DO-41 & A-405	DO-15	DO-201AD
Q'ty/Taping	5K	4K	1.4K
Q'ty/Packing Case	20K	16K	5.6K

2. 弹带盒装/Ammo Packing

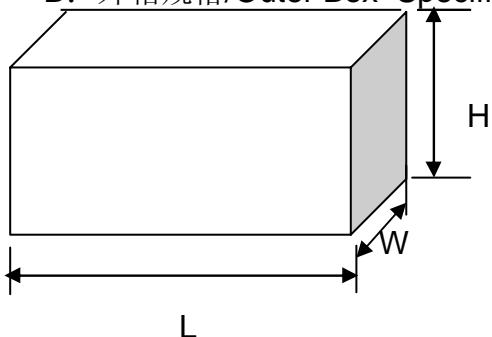
Unit:mm

A: 弹带盒规格/Ammo Box Spec.



Item	Symbol	Dimension	Notes
Box's Size	L	260±2	52mm TYPE
	W	76±2	
	H	100±4	
Box's Size	L	250±3	26mm TYPE
	W	45±3	
	H	95±5	

B: 外箱规格/Outer Box Specification



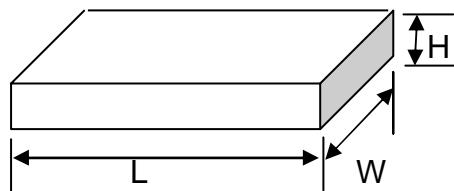
Item	Symbol	Dimension	Notes
Case's Size	L	430±2	52mm TYPE
	W	280±2	
	H	225±4	
Case's Size	L	435±3	26mm TYPE
	W	280±3	
	H	295±5	

按以上包装方式: (As per the above spec)

	外型/Outside		
	A-405 & DO-41 & R-1	DO-15	DO-201AD
Q'ty/Taping	3K	2K	0.8K
Q'ty/Packing Case 26mm/TYPE	30K	20K	7.2K
Q'ty/Packing Case 52mm/TYPE	60K	40K	14.4K

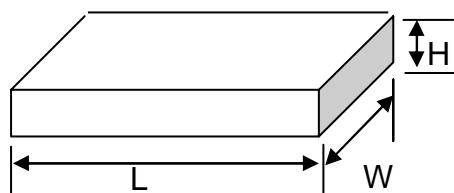
3. 散装/Bulk Packing

A. 包装盒尺寸/Box Dimension



(DO-41&DO-15)

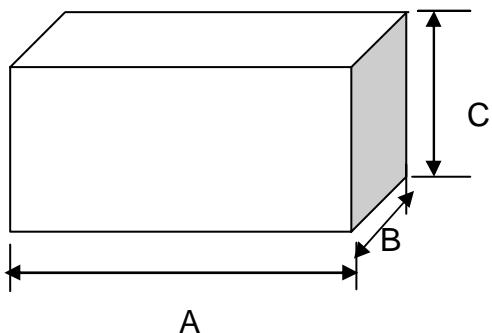
Item	Symbol	Dimension
Box's Size	L	200±2
	W	84±2
	H	21±2



(DO-201AD)

Item	Symbol	Dimension
Box's Size	L	200±2
	W	84±2
	H	29±2

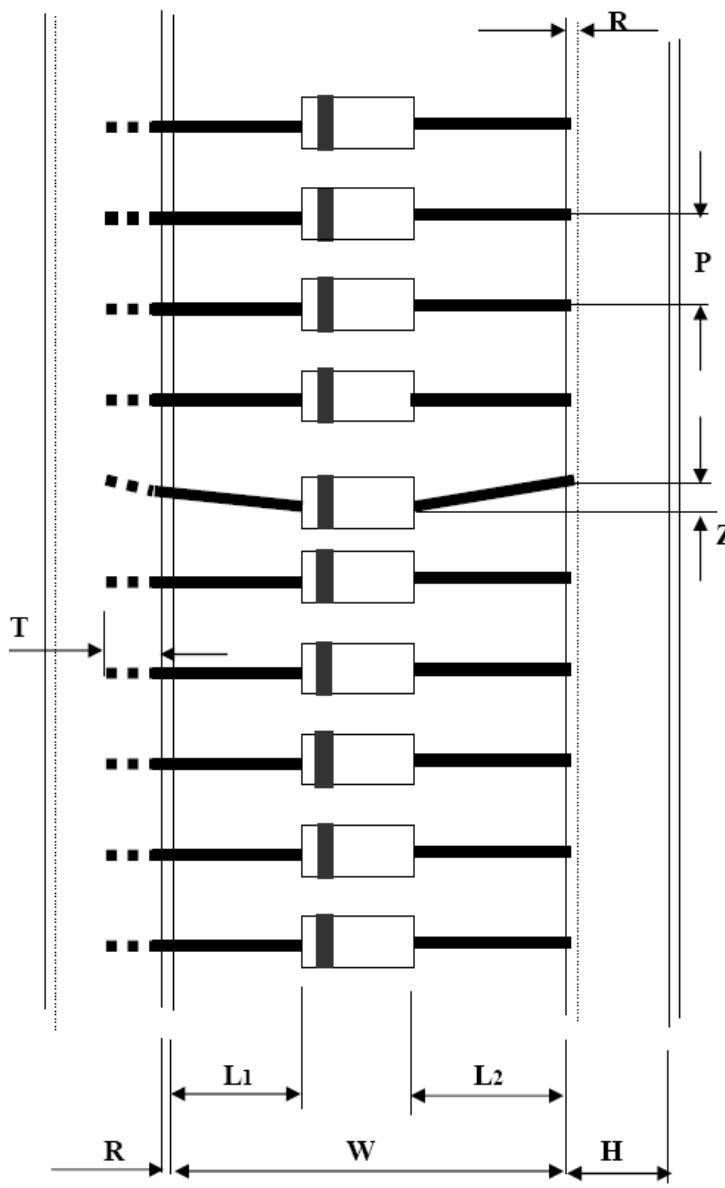
B: 外箱规格/Outer Box Specification



Item	Symbol	Dimension
Case's Size	L	465±2
	W	225±2
	H	260±4

按以上包装方式: (As per the above spec)

	外型/Outside		
	DO-41&A-405&R-1	DO-15	DO-201AD
Q'ty/Taping	1K	0.5K	0.3K
Q'ty/Packing Case	50K	25K	12K

4. 编带图形及规格/Taping Specification


Unit:mm

尺寸代号 Dimension Code	编带尺寸/Tape Dimension		
	26/tape	52/tape	52/tape#
W	26 0.0/+1.6	52 -1.0/+2.0	52 -1.0/+2.0
P	5±0.5	5±0.5	10±0.5
L ₁ -L ₂	<1.0	<1.2	<1.2
H	6±1.0	6±1.0	6±1.0
Z	<1.2	<1.2	<1.2
R	<1.0	<1.0	<1.0
T	>3.2	>3.2	>3.2

注: 52编带# 为DO-201AD编带规格

Remark: 52 tape# is DO-201AD taping spec.