imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Axial-Lead Glass Passivated Standard Recovery Rectifiers

Lead mounted standard recovery rectifiers are designed for use in power supplies and other applications having need of a device with the following features:

Features

- High Current to Small Size
- High Surge Current Capability
- Low Forward Voltage Drop
- Void–Free Economical Plastic Package
- Available in Volume Quantities
- Plastic Meets UL 94 V–0 for Flammability
- These are Pb–Free Devices

Mechanical Characteristics:

- Case: Epoxy, Molded
- Weight: 1.1 Gram (Approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Polarity: Cathode Indicated by Polarity Band
- *For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



ON Semiconductor®

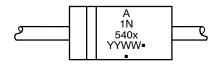
www.onsemi.com

STANDARD RECOVERY RECTIFIERS 50–1000 VOLTS 3.0 AMPERES



AXIAL LEAD CASE 267-05 STYLE 1

MARKING DIAGRAM



A = Assembly Location 1N540x = Device Number x = 0, 1, 2, 4, 6, 7 or 8 YY = Year WW = Work Week = Pb-Free Package (Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information on page 5 of this data sheet.

MAXIMUM RATINGS

Rating	Symbol	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
Non-repetitive Peak Reverse Voltage	V _{RSM}	100	200	300	525	800	1000	1200	V
Average Rectified Forward Current (Single Phase Resistive Load, 1/2 in. Leads, T _L = 105°C)	lo	3.0					A		
Non-repetitive Peak Surge Current (8 ms Single Half-Sine-Wave)	I _{FSM}	200 (one cycle)					А		
Operating and Storage Junction Temperature Range	T _J T _{stg}	– 65 to +150 – 65 to +175				°C			

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Тур	Unit
Thermal Resistance, Junction-to-Ambient (PC Board Mount, 1/2 in. Leads)		53	°C/W

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min	Тур	Max	Unit
Forward Voltage (I _F = 3.0 A, $T_A = 25^{\circ}C$)	٧ _F	-	-	1.0	V
Reverse Current (Rated DC Voltage)	I _R				μΑ
$T_A = 25^{\circ}C$		-	-	10	
$T_A = 100^{\circ}C$		-	-	50	

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

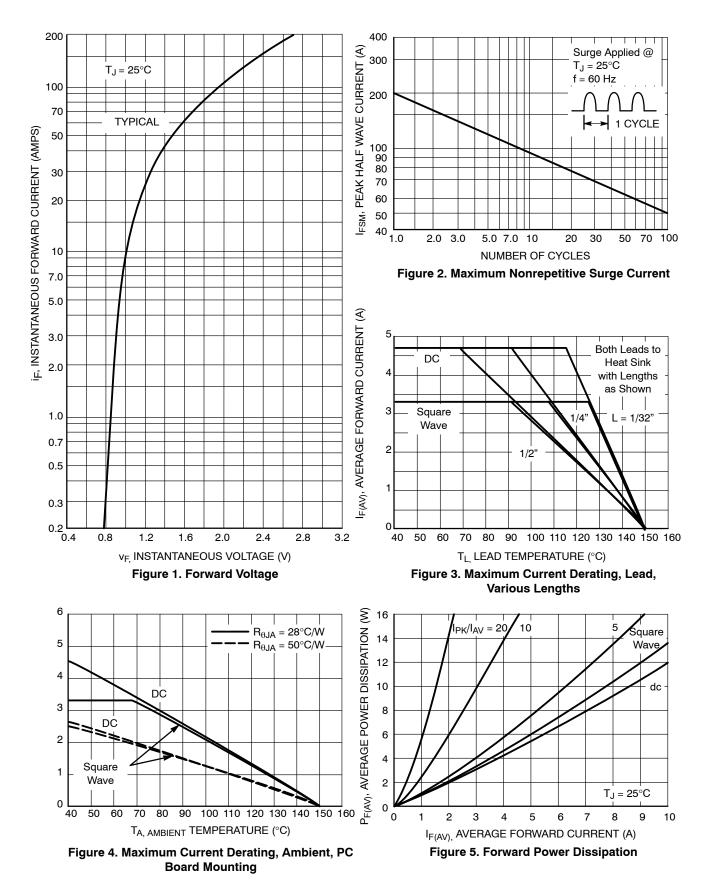
Ratings at 25°C ambient temperature unless otherwise specified.

60 Hz resistive or inductive loads.

For capacitive load, derate current by 20%.

NOTE 1 — AMBIENT MOUNTING DATA

Data shown for thermal resistance junction-to-ambient ($R_{\theta JA}$) for the mountings shown is to be used as typical guideline values for preliminary engineering or in case the tie point temperature cannot be measured. TYPICAL VALUES FOR R _{$\theta JA IN STILL AIR$}							
	Mounting	Lea	ld Leng	th, L (ll	۷)	$R_{\theta JA}$	
	Method	1/8	1/4	1/2	3/4		
	1	50	51	53	55	°C/W	
	2	58	59	61	63	°C/W	
	3		2	8		°C/W	
	¢		C. Boar 1/2" x opper S	1–1/2"			



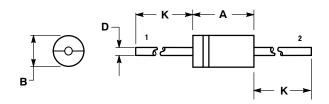
ORDERING INFORMATION

Device	Package	Shipping [†]		
1N5400G	Axial Lead*	500 Units/Box		
1N5400RLG	Axial Lead*	1200/Tape & Reel		
1N5401G	Axial Lead*	500 Units/Box		
1N5401RLG	Axial Lead*	1200/Tape & Reel		
1N5402G	Axial Lead*	500 Units/Box		
1N5402RLG	Axial Lead*	1200/Tape & Reel		
1N5404G	Axial Lead*	500 Units/Box		
1N5404RLG	Axial Lead*	1200/Tape & Reel		
1N5406G	Axial Lead*	500 Units/Box		
1N5406RLG	5406RLG Axial Lead* 120			
1N5407G Axial Lead*		500 Units/Box		
1N5407RLG Axial Lead*		1200/Tape & Reel		
1N5408G	Axial Lead* 500 Units/Box			
1N5408RLG	08RLG Axial Lead* 1200/Tape & R			

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. *This package is inherently Pb-Free.

PACKAGE DIMENSIONS

AXIAL LEAD CASE 267-05 **ISSUE G**



NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.287	0.374	7.30	9.50	
В	0.189	0.209	4.80	5.30	
D	0.047	0.051	1.20	1.30	
K	1.000		25.40		

STYLE 1: PIN 1. CATHODE (POLARITY BAND) 2. ANODE

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