## MOTOROL408供应商 SEMICONDUCTOR TECHNICAL DATA

# WWW.DZSC.COM **Axial-Lead 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:

- High Current to Small Size
- High Surge Current Capability
- Low Forward Voltage Drop
- Void–Free Economical Plastic Package W.DZSC.COM
- Available in Volume Quantities

#### **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: 220°C Max. for 10 Seconds, 1/16" from case
- Shipped in plastic bags, 5,000 per bag.
- Available Tape and Reeled, 1500 per reel, by adding a "RL" suffix to the part number
- Polarity: Cathode Indicated by Polarity Band
- Marking: 1N5400, 1N5401, 1N5402, 1N5404, 1N5406, 1N5407, 1N5408

### MAXIMUM RATINGS

Rating	Symbol	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm V <sub>RWM</sub> Vr	50	100	200	400	600	800	1000	Volts
Non-repetitive Peak Reverse Voltage	VRSM	100	200	300	525	800	1000	1200	Volts
Average Rectified Forward Current (Single Phase Resistive Load, 1/2'' Leads, T <sub>L</sub> = 105°C)	10	3.0						Amp	
Non-repetitive Peak Surge Current (Surge Applied at Rated Load Conditions)	IFSM	200 (one cycle)						Amp	
Operating and Storage Junction Temperature Range	Тј T <sub>stg</sub>	- 65 to +170 - 65 to +175					°C		

#### THERMAL CHARACTERISTICS

Characteristic	Symbol	Тур	Unit
Thermal Resistance, Junction to Ambient (PC Board Mount, 1/2" Leads)	R <sub>0JA</sub>	53	°C/W

#### **ELECTRICAL CHARACTERISTICS**

Characteristic	Symbol	Min	Тур	Max	Unit
*Instantaneous Forward Voltage (1) (iF = 9.4 Amp)	٧F	-	—	1.2	Volts
Average Reverse Current (1) DC Reverse Current (Rated dc Voltage, TL = 80°C)	IR(AV)	_	_	500 500	μA

\* JEDEC Registered Data.

f<mark>.dzsc.com</mark> Rev 2

(1) Measured in a single phase halfwave circuit such as shown in Figure 6.25 of EIA RS-282, November 1963. Operated at rated load conditions  $T_L = 80^{\circ}C$ ,  $I_O = 3.0$  Å,  $V_r = V_{RWM}$ .

Preferred devices are Motorola recommended choices for future use and best overall value.

Ratings at 25°C ambient temperature unless otherwise specified.

60 Hzpesistive or inductive loads.

or capacitive load, derate current by 20%.



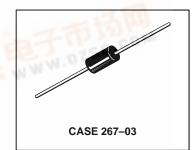
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by 1N5400/D

捷多邦,专业PCB打样工厂

1N5404 and 1N5406 are **Motorola Preferred Devices** 

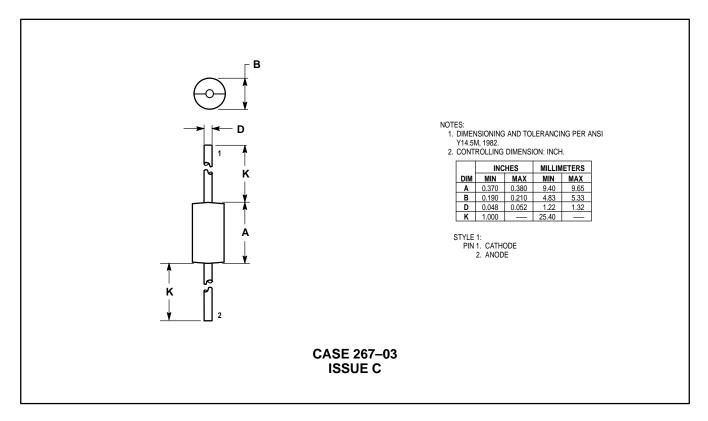
**STANDARD RECOVERY RECTIFIERS** 50-1000 VOLTS 3.0 AMPERE





#### 1N5400 thru 1N5408

#### PACKAGE DIMENSIONS



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ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; 8B Tai Ping Industrial Park, 51 Ting Kok Road, Tai Po, N.T., Hong Kong. 852-26629298

3-14-2 Tatsumi Koto-Ku, Tokyo 135, Japan. 81-3-3521-8315

JAPAN: Nippon Motorola Ltd.; Tatsumi-SPD-JLDC, 6F Seibu-Butsuryu-Center,