

# 1N5391      THRU      1N5399

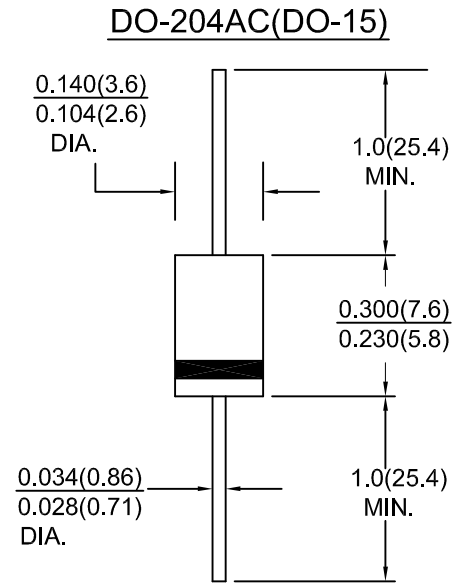
## SILICON RECTIFIERS

### FEATURES:

- Low cost
- High surge current capability
- Low leakage current
- Low forward voltage drop
- Diffused junction

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy  
 Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed  
 Polarity : Color band on body denotes cathode  
 Mounting Position : Any  
 Weight : 0.40 gram



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N	1N	1N	1N	1N	1N	1N	1N	1N	Units
		5391	5392	5393	5394	5395	5396	5397	5398	5399	
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at Ta=75° C	I <sub>O</sub>	1.5									Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I <sub>FSM</sub>	50.0									Amps
Maximum instantaneous forward voltage at 1.5 A	V <sub>F</sub>	1.1	1.0								Volts
Maximum DC reverse current Ta=25° C at rated DC reverse voltage Ta=125° C	I <sub>R</sub>	5.0 50.0									μ A
Typical junction capacitance	C <sub>j</sub>	25									pF
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-65 to +125					-65 to +150				° C

# RATINGS AND CHARACTERISTIC CURVES 1N5391 THRU 1N5399

