

1N5391 THRU 1N5399

SILICON RECTIFIERS

FEATURES:

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

MECHANICAL DATA

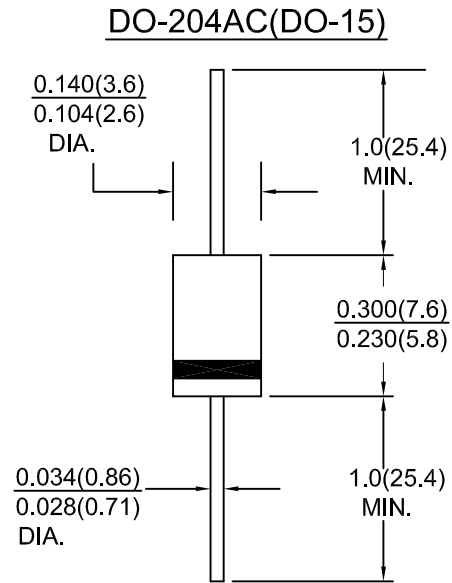
Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

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_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at $T_a=75^\circ\text{C}$	$I_{(AV)}$	1.5									Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	50.0									Amps
Maximum instantaneous forward voltage at 1.5 A	V_F	1.1	1.0								Volts
Maximum DC reverse current at rated DC reverse voltage	I_R	5.0 50.0									μA
Typical junction capacitance	C_j	25									pF
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +125				-65 to +150					$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES 1N5391 THRU 1N5399

