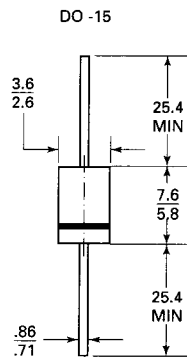


# 1N5391...1N5399 PLASTIC SILICON RECTIFIERS

## FEATURES

- \* Low forward voltage
- \* High current capability
- \* Low leakage current
- \* High surge capability
- \* Low cost



VOLTAGE RANGE  
50 to 1000 Volts  
CURRENT  
1.5 Amperes

Dimensions in mm

zakazplat.ru

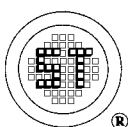
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

	1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage*	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage*	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage*	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375", 9.5mm Lead Length at T <sub>A</sub> = 70 °C	1.5									A
Peak Forward Surge Current 8.3 ms single half sine-wave	60									A
Maximum Forward Voltage at 1.5A Peak	1.4									V
Maximum Reverse Current, Rated DC Blocking Voltage	5.0									μA
Maximum Full Load Reverse Current, Full Cycle Average, .375", 9.5 mm Lead Length at T <sub>A</sub> = 55 °C	30									μA
Typical Junction Capacitance (Note 1)	25									pF
Typical Reverse Recovery Time (Note 2)	2									μs
Operating and Storage Temperature Range T <sub>A</sub>	-65 to + 175									°C

### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V<sub>DC</sub>
2. Measured with I<sub>F</sub> = 0.5A, I<sub>m</sub> = 1A, I<sub>r</sub> = .25A



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Fig. 1 – TYPICAL FORWARD CHARACTERISTICS

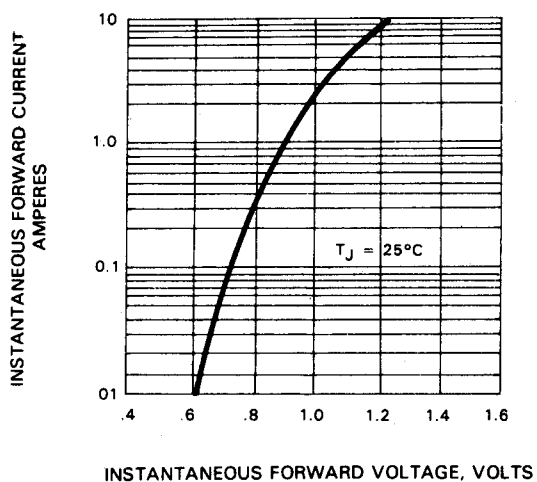


Fig. 2 – PEAK FORWARD SURGE CURRENT

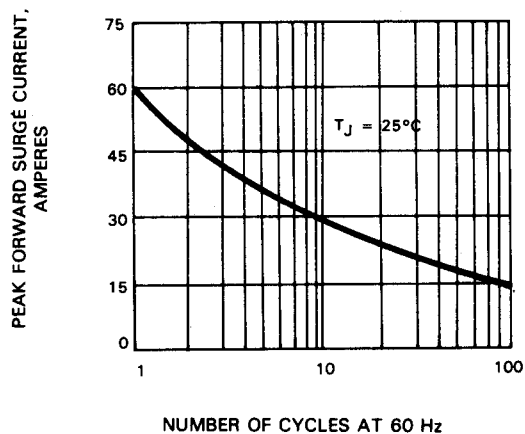


Fig. 3 – FORWARD CURRENT DERATING CURVE

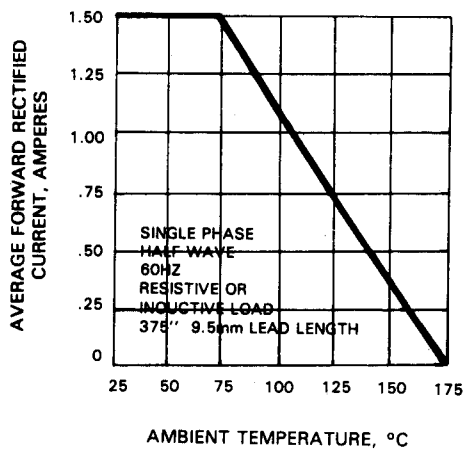
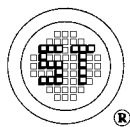
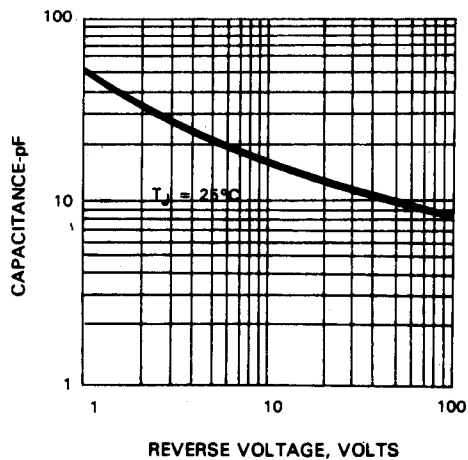


Fig. 4 – TYPICAL JUNCTION CAPACITANCE



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