1N5391 THRU 1N5399



1.5 AMP SILICON RECTIFIERS

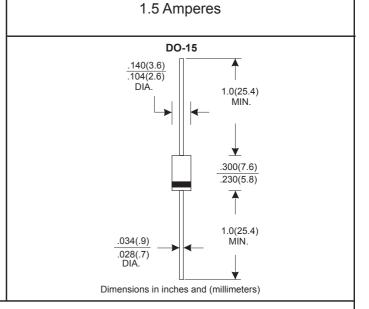
FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.40 grams

VOLTAGE RANGE 50 to 1000 Volts CURRENT



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=50°C		1.5						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		50						Α
Maximum Instantaneous Forward Voltage at 1.5A		1.0					V	
Maximum DC Reverse Current Ta=25 ℃		5.0						μА
at Rated DC Blocking Voltage Ta=100℃		50						
Typical Junction Capacitance (Note 1)		20						pF
Typical Thermal Resistance RθJA (Note 2)		50						°C/W
Operating and Storage Temperature Range TJ, TsTG		-65—+150						

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

RATING AND CHARACTERISTIC CURVES (1N5391 THRU 1N5399)

CHARACTERISTICS

50

50

3.0

1.0

Tj=25°C

Pulse Width 300us
1% Duty Cycle

1% Duty Cycle

.01

FIG.1-TYPICAL FORWARD

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

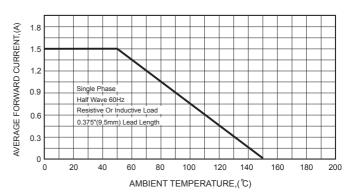
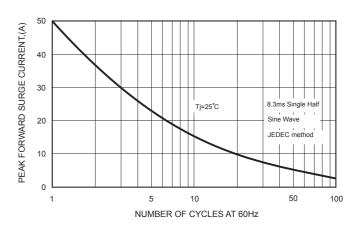
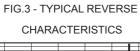


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





1.0 1.1

FORWARD VOLTAGE,(V)

1.2

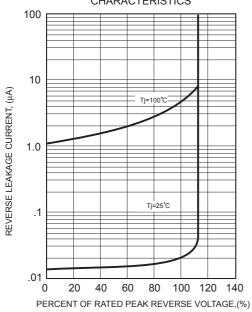


FIG.5-TYPICAL JUNCTION CAPACITANCE

