

1N5391 THRU 1N5399

SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes

FEATURES

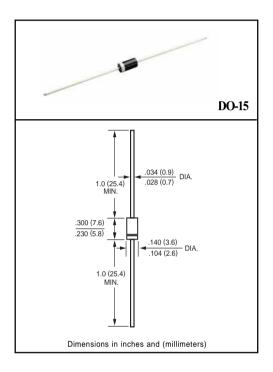
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.38 gram

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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

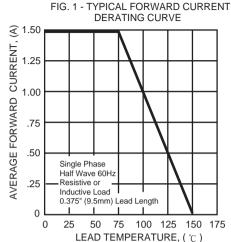
RATINGS	SYMBOL	1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at TL = 70°C	lo	1.5							Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amps		
Typical Junction Capacitance (Note)	CJ	20							pF		
Typical Thermal Resistance	RθJA	50						°C/W			
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							٥C		

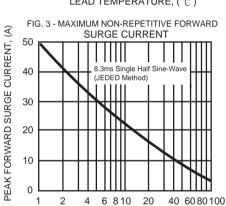
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	1N5391 1N5392 1N5393 1N5394 1N5395 1N5396 1N5397 1N5398 1N5399	UNITS			
Maximum Instantaneous Forward Voltage at 1.5A DC		VF	1.4	Volts			
Maximum DC Reverse Current	@Ta = 25°C		5.0	uAmps			
at Rated DC Blocking Voltage	@Ta = 100°C	ln.	50	uAmps			
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75°C		lR	30				

NOTES: Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (1N5391 THRU 1N5399)





NUMBER OF CYCLES AT 60Hz

