Elektronische Bauelemente

1N5391 THRU 1N5399

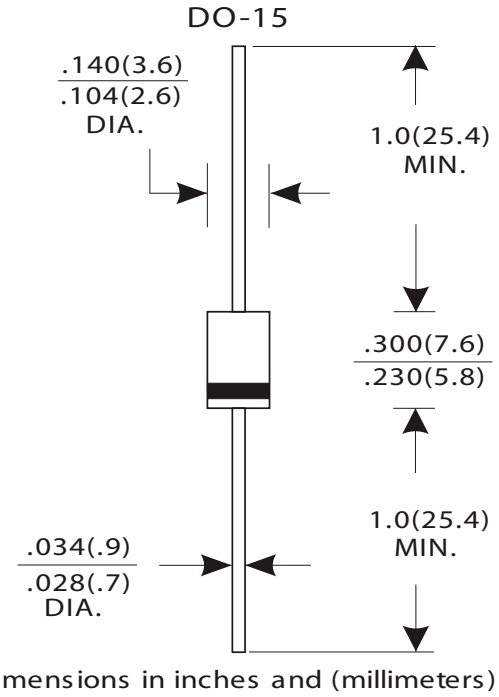
VOLTAGE 50V ~ 1000V

1.5 AMP Silicon Rectifiers

A suffix of "-C" indicates halogen-free & RoHS Compliant

● FEATURES

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability



Dimensions in inches and (millimeters)

● MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Lead, Solder Able per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any
- Weight: 0.40 grams

● MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature unless otherwise 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 ℃	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage at 1.5A	1.0							V
Maximum DC Reverse Current Ta = 25 ℃	5.0							μA
at Rated DC Blocking Voltage Ta = 100 ℃	50							
Typical Junction Capacitance (Note1)	20							pF
Typical Thermal Resistance RθJA (Note 2)	50							℃ / W
Operating and Storage Temperature Range T_J, T_{STG}	-65 ~ +175							℃

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.

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●RATING AND CHARACTERISTIC CURVES (1N5391 THRU 1N5399)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

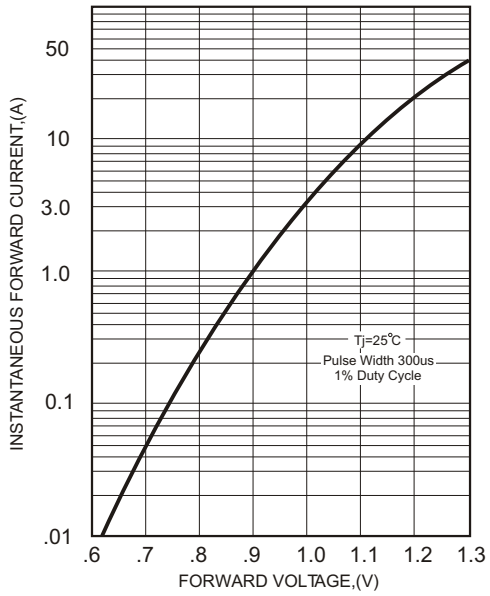

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

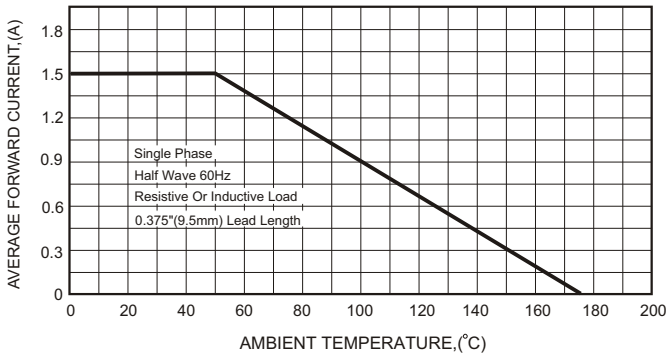

FIG.3 - TYPICAL REVERSE CHARACTERISTICS

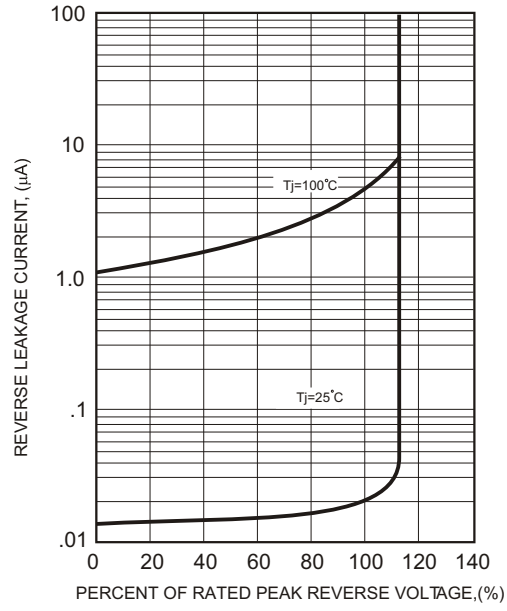

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

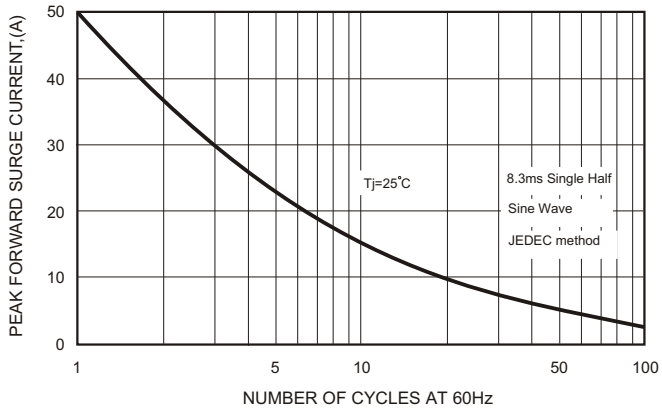

FIG.5-TYPICAL JUNCTION CAPACITANCE