

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N4148 THRU 1N4448

FEATURES

- * Silicon epitaxial planar diodes
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High speed switching
- * High current capability
- * High reliability

MECHANICAL DATA

* Case: Glass sealed case

* Lead: MIL-STD-202E, Method 208 guaranteed

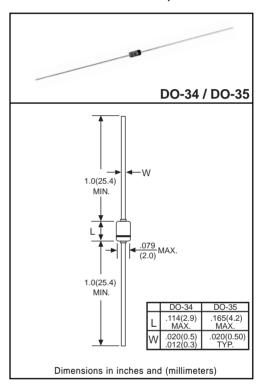
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 0.13 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%.



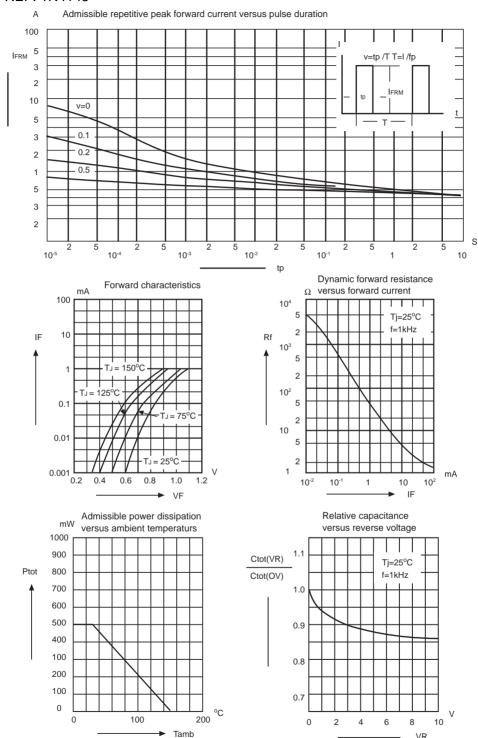
	SYMBOL	1N4148	1N4150	1N4151	1N4448	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	50	75	100	V
Maximum Average Rectified Current	lo	150	200	150	150	mA
Maximum Power Dissipation Tamb = 25°C	Ptot	500	500	500	500	mW
Maximum Forward Voltage	Vr/@Ir	1.0/10	1.0/200	1.0/50	1.0/100	V/mA
Maximum Reverse Current	IR/@VR	5000/75	100/50	50/50	5000/75	nA/V
Maximum Reverse Recovery Time	trr	4.0	4.0	2.0	4.0	nS
Peak Forward Surge Current, t < 1s and T _J = 25°C	IFSM	0.5				А
Typical Junction Capacitance	Reja	300				°C / W
Typical thermal Resistance	CJ	4.0				pF
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150				°C

NOTE: Suffix "M" stands for "DO-34" package.(e.g.:1N4148M)

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RATING AND CHARACTERISTIC CURVES (1N4148 THRU 1N4448)

REF: 1N4148



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