



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

DL4148
THRU
DL4454

TECHNICAL SPECIFICATIONS OF HIGH SPEED SWITCHING DIODES

VOLTAGE RANGE - 50 to 100 Volts

CURRENT - 0.15 to 0.2 Ampere

FEATURES

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

MECHANICAL DATA

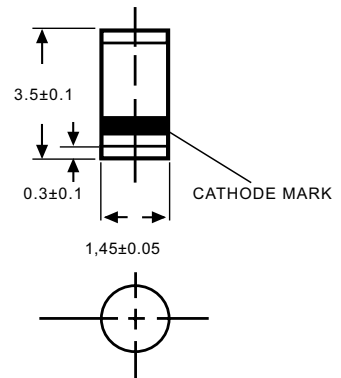
- * Case: Glass sealed case
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 gram

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%.



DL-35

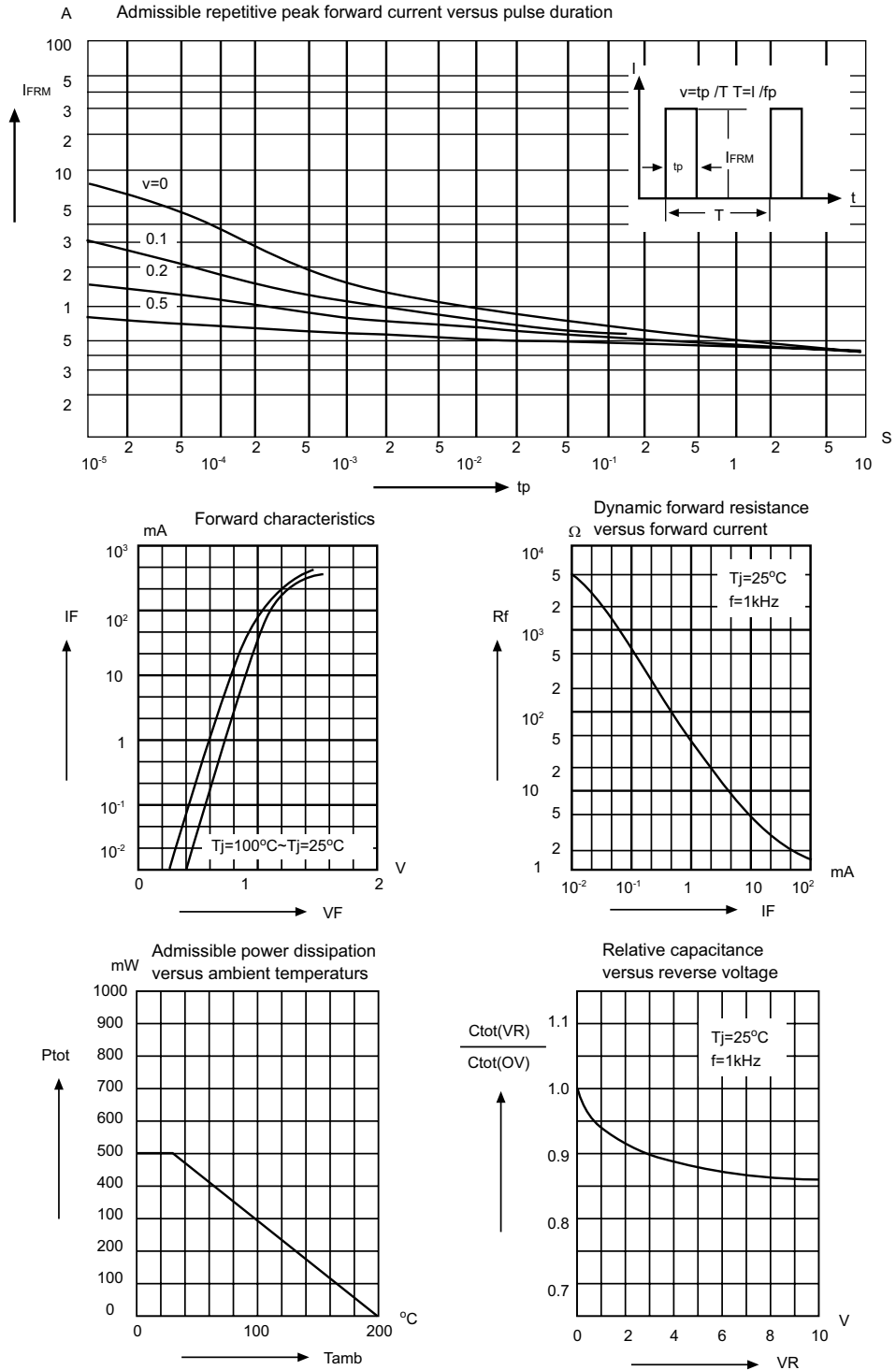


Dimensions in millimeters

| | SYMBOL | DL4148 | DL4150 | DL4151 | DL4448 | DL4454 | UNITS |
|---|----------------|--------------|---------|--------|---------|--------|-------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 100 | 50 | 100 | 50 | 75 | V |
| Maximum Average Rectified Current | I_o | 150 | 200 | 150 | 150 | 150 | mA |
| Maximum Power Dissipation $T_{amb}=25^{\circ}C$ | P_{tot} | 500 | 500 | 500 | 500 | 500 | mW |
| Maximum Forward Voltage | V_F | 1.0/10 | 1.0/200 | 1.0/50 | 1.0/100 | 1.0/10 | V/mA |
| Maximum Reverse Current | I_R | 5000/75 | 100/50 | 50/50 | 5000/75 | 100/10 | nA/V |
| Maximum Reverse Recovery Time | t_{rr} | 4.0 | 4.0 | 2.0 | 4.0 | 4.0 | nS |
| Typical Junction Capacitance | C_J | 4.0 | | | | | pF |
| Operating and Storage Temperature Range | T_J, T_{STG} | -65 to + 200 | | | | | $^{\circ}C$ |

RATING AND CHARACTERISTIC CURVES (DL4148 THRU DL4454)

REF: DL4148



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