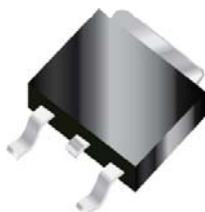




T40L150CD2



Excellent Schottky Barrier Rectifiers



D2-PAK

| Primary Characteristics | | |
|-------------------------|------|----|
| I_F | 40 | A |
| V_{RRM} | 150 | V |
| I_{FSM} | 200 | A |
| V_F | 0.85 | V |
| T_J max | 150 | °C |

| Features |
|---|
| <ul style="list-style-type: none"> • Low Forward Voltage Drop • Excellent High Temperature Stability • Excellent Barrier Rectifier Technology • Soft, Fast Switching Capability |

| Mechanical Data |
|--|
| <ul style="list-style-type: none"> • Case: D2-PAK • Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0 • Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 • Weight: 1.43 grams (approximate) |

| Ordering Information | | | |
|----------------------|--------------------|---------|------------|
| Part No. | Remark | Package | Packing |
| T40L150CD2 | General | D2-PAK | 800 / Reel |
| T40L150CD2-H | Halogen Free | | |
| T40L150CD2 | AEC-Q101 qualified | | |

| Maximum Ratings (TA=25°C unless otherwise noted) | | | |
|--|-----------------|------------------------|------|
| PARAMETER | SYMBOL | T40L150CD2 | UNIT |
| Maximum repetitive peak reverse voltage | V_{RRM} | 150 | V |
| Maximum RMS voltage | V_{RMS} | 105 | V |
| Maximum DC blocking voltage | V_{DC} | 150 | V |
| Maximum average forward rectified current (Total) (Per Leg) | I_F | 40 20 | A |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 200 | A |
| Maximum Instantaneous Forward Voltage $I_F=3A @ 25^\circ C$ $I_F=20A @ 25^\circ C$ | V_F | 0.58 Typ. 0.85 Max. | V |
| Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C | I_R | 0.2 20 | mA |
| Typical Junction Capacitance(NOTE1) | C_j | 1100 | pF |
| Typical Thermal Resistance | $R_{\theta JC}$ | 3 | °C/W |
| Operating Temperature Range | T_J | -55 to +150 | °C |
| Storage Temperature Range | T_{STG} | -55 to +150 | °C |
| Marking Code | | T40L150CD2、40L150CD2 | |

NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

Excellent Schottky Barrier Rectifiers

Rating and Characteristics Curvers

FIG. 1-Typical Forward Current Derating Curve

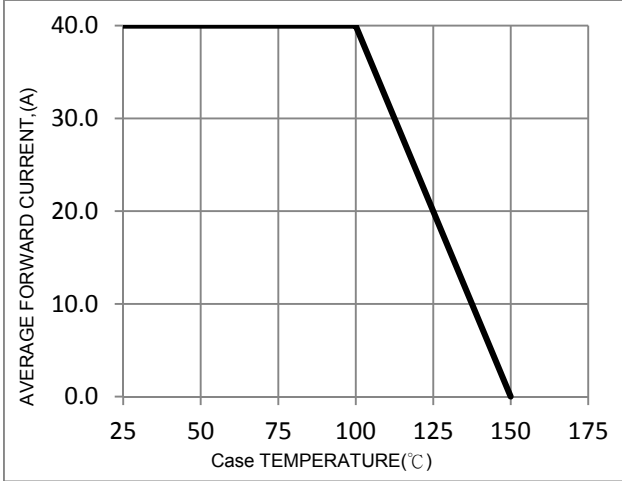


FIG. 2-Typical Forward Characteristics

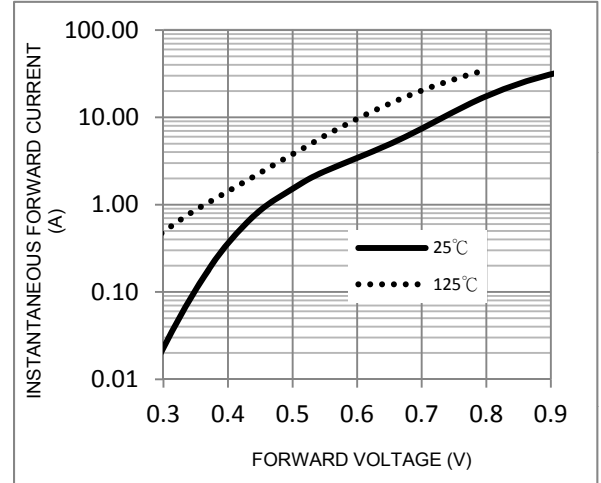


FIG. 3-Maximum Non-Repetitive Forward Surge Current

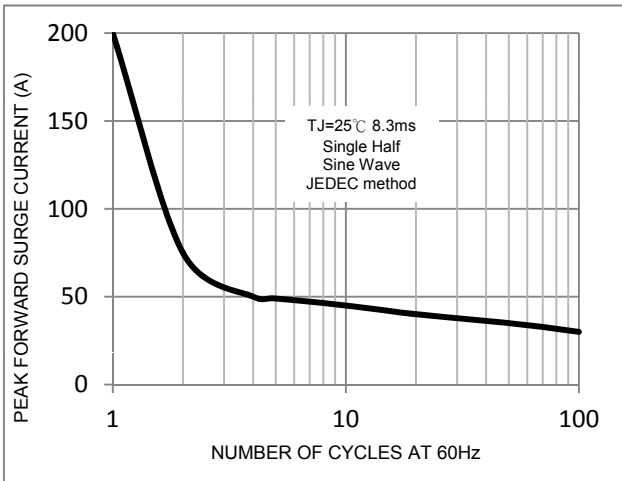


FIG. 4-Typical Reverse Characteristics

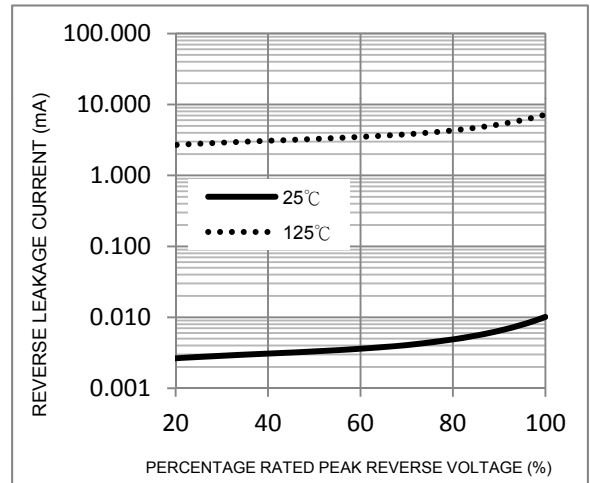
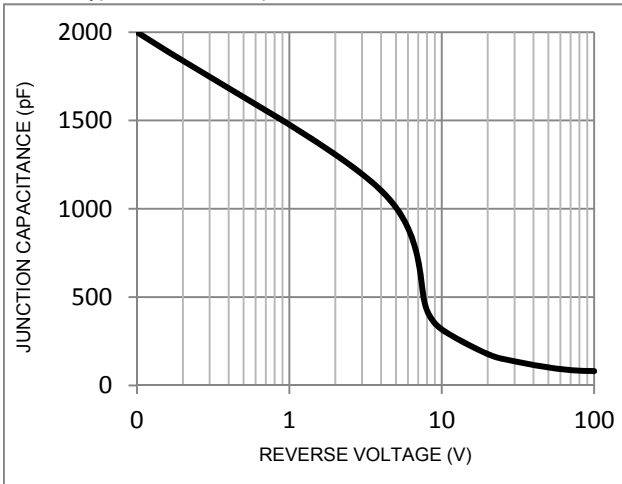
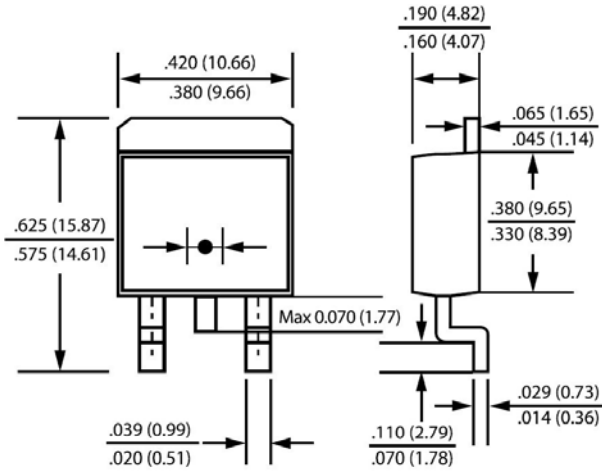


FIG. 5-Typical Junction Capacitance



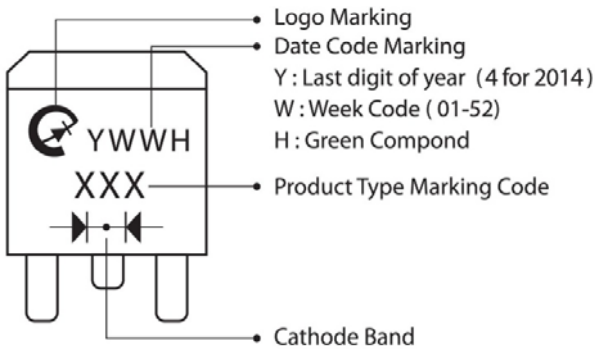
Package Outline Dimensions



D2-PAK

Dimensions in inches and (millimeters)

Marking Information



Suggested Pad Layout

| Dimension | Outline | D2PAK (mm) |
|-----------|---------|------------|
| A | | 5.08 |
| B | | 1.10 |
| C | | 10.80 |
| D | | 8.30 |
| E | | 3.50 |
| F | | 16.90 |

