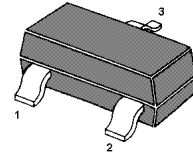
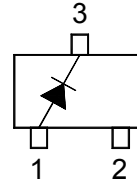


# BAT750

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER DIODES

### Features

- Very low forward voltage drop
- High conductance



Marking Code: **K77**  
SOT-23 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

| Parameter  | Symbol          | Value         | Unit               |
|--|-----------------|---------------|--------------------|
| Repetitive Peak Reverse Voltage                                    | $V_{RRM}$       | 40            | V                  |
| Maximum DC Blocking Voltage  | $V_R$           | 40            | V                  |
| Average Rectified Forward Current                                  | $I_{F(AV)}$     | 0.75          | A                  |
| Non-repetitive Peak Forward Surge Current ( $t = 8.3 \text{ ms}$ ) | $I_{FSM}$       | 5.5           | A                  |
| Power Dissipation  | $P_{tot}$       | 350           | mW                 |
| Thermal Resistance Junction to Ambient Air                         | $R_{\theta JA}$ | 286           | $^\circ\text{C/W}$ |
| Operating and Storage Temperature Range                            | $T_j, T_{stg}$  | - 55 to + 125 | $^\circ\text{C}$   |

### Electrical Characteristics at $T_a = 25^\circ\text{C}$

| Parameter   | Symbol      | Min.                            | Max.  | Unit          |
|---|-------------|---------------------------------|---|---------------|
| Reverse Breakdown voltage<br>at $I_R = 300 \mu\text{A}$   | $V_{(BR)R}$ | 40                              | -   | V             |
| Forward voltage<br>at $I_F = 50 \text{ mA}$<br>at $I_F = 100 \text{ mA}$<br>at $I_F = 250 \text{ mA}$<br>at $I_F = 500 \text{ mA}$<br>at $I_F = 750 \text{ mA}$<br>at $I_F = 1 \text{ A}$<br>at $I_F = 1.5 \text{ A}$ | $V_F$       | -<br>-<br>-<br>-<br>-<br>-<br>- | 280<br>310<br>350<br>420<br>490<br>540<br>650 | mV            |
| Reverse current<br>at $V_R = 30 \text{ V}$  | $I_R$       | -                               | 100   | $\mu\text{A}$ |
| Total capacitance<br>at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$  | $C_T$       | -                               | 175   | pF            |

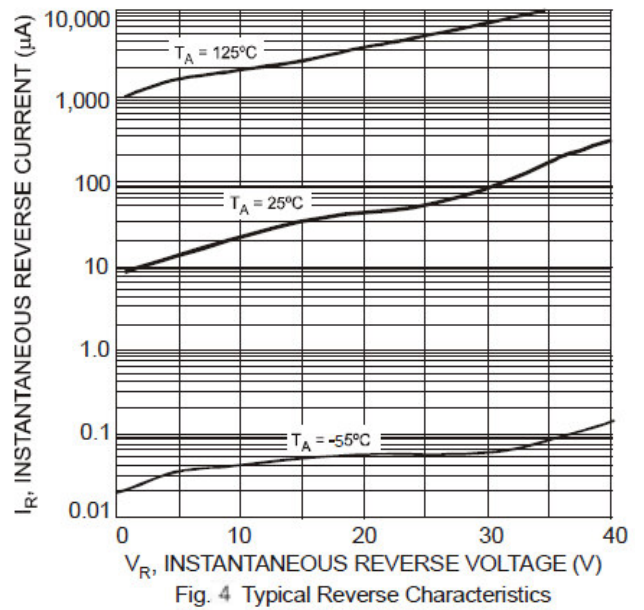
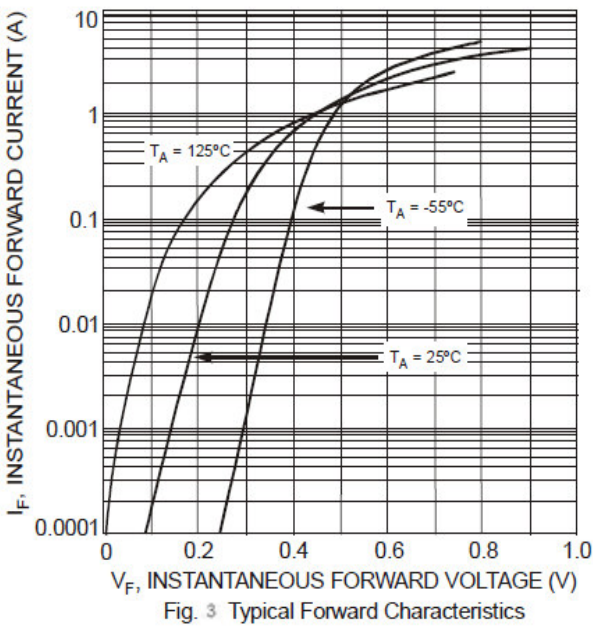
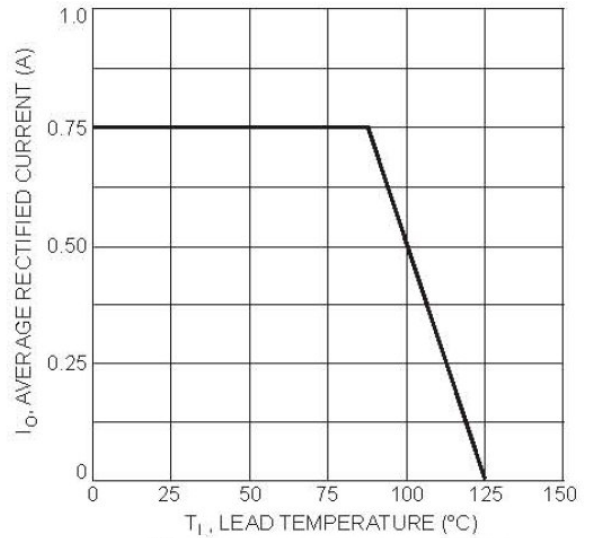
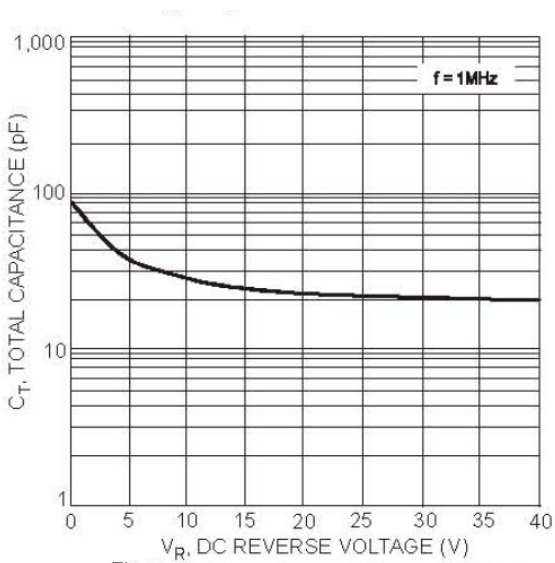
**TOP DYNAMIC**



ISO14001 : 2004 Certificate No. 121505007  
 ISO 9001 : 2008 Certificate No. 03144012  
 OHSAS 18001 : 2007 Certificate No. 06131508009  
 IECQ QC 080000 Certificate No. ECU180014102

Dated: 19/05/2016 Rev: 02

# BAT750



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