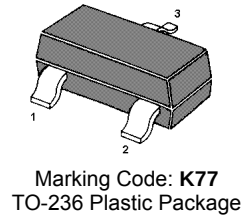
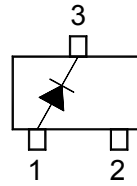


BAT750

Surface Mount Schottky Barrier Rectifier Diodes

Features

- Very low forward voltage drop
- High conductance



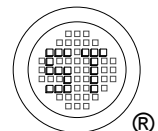
Marking Code: K77
TO-236 Plastic Package

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	$R_{\theta JA}$	350	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

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



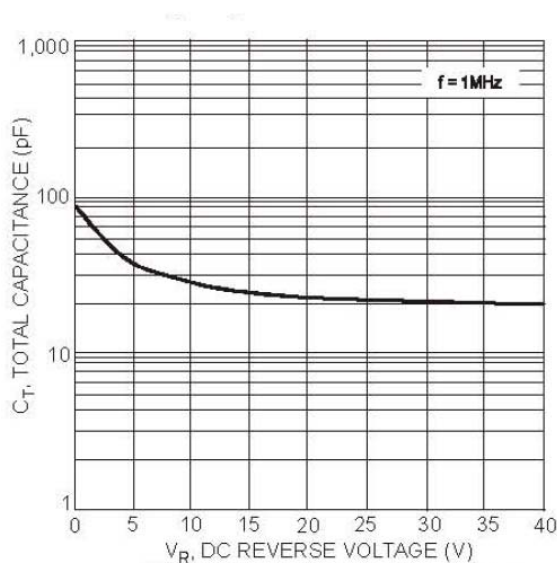


Fig. 1 Total Capacitance vs. Reverse Voltage

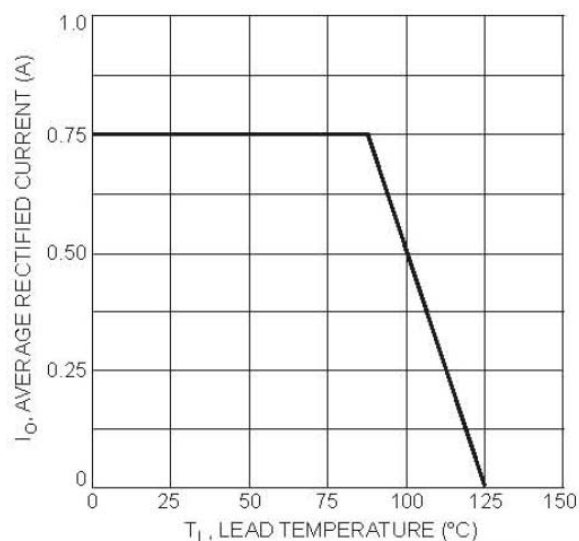


Fig. 2 Forward Current Derating Curve

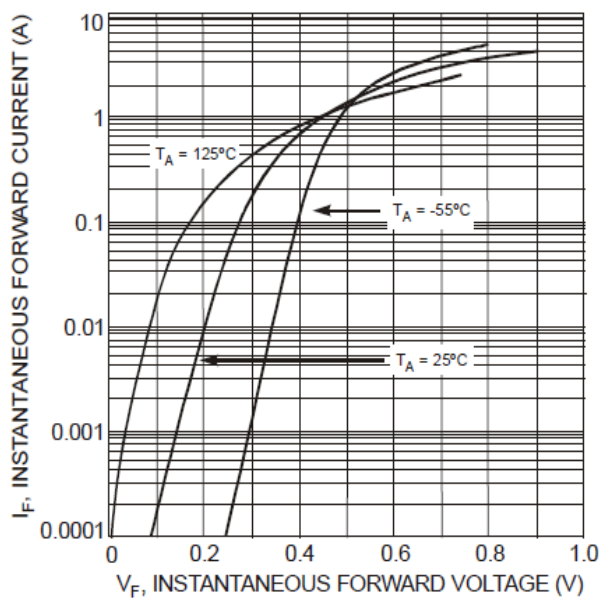


Fig. 3 Typical Forward Characteristics

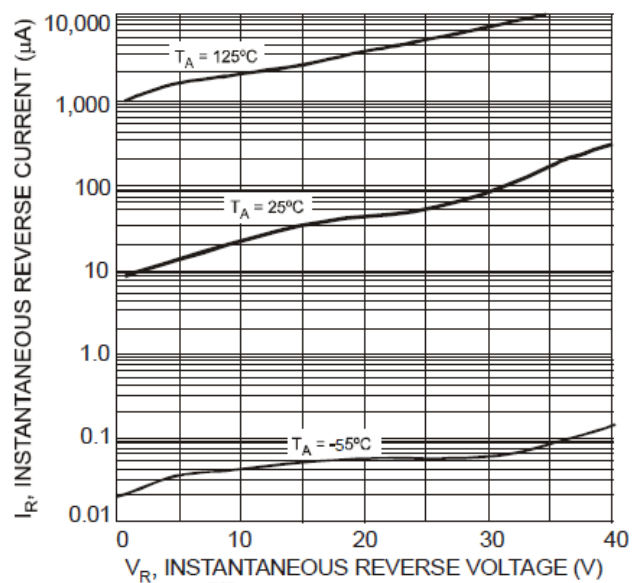
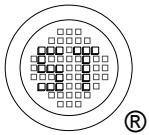


Fig. 4 Typical Reverse Characteristics

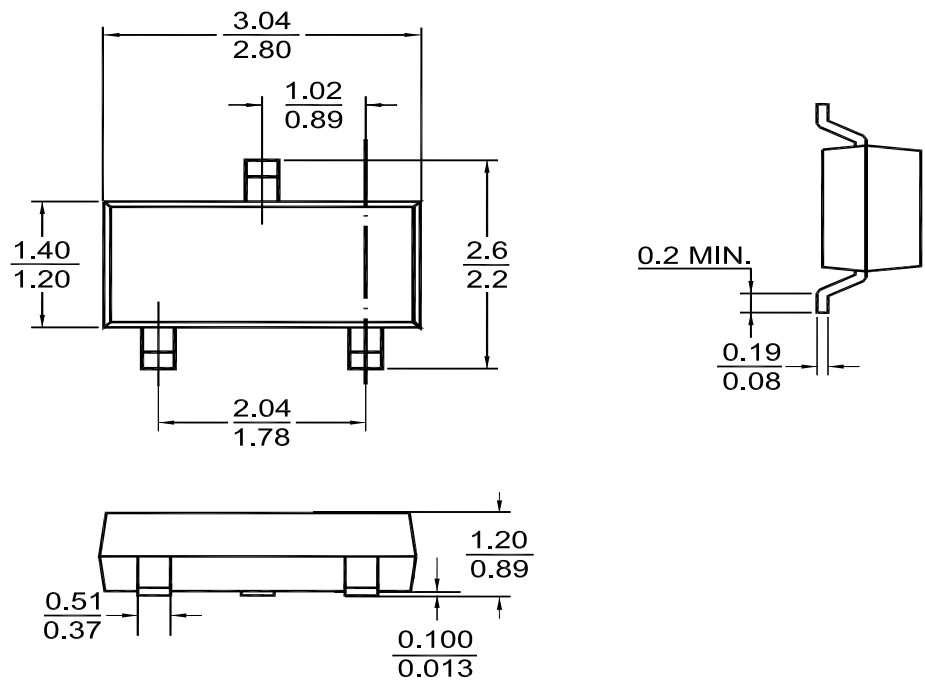


BAT750

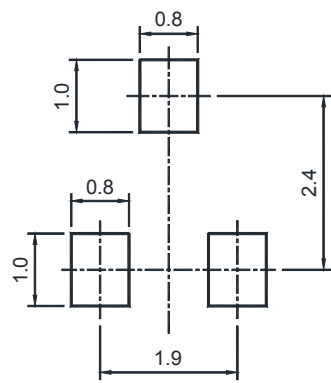
PACKAGE OUTLINE

Plastic surface mounted package (Dimensions in mm)

TO-236



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-236	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

