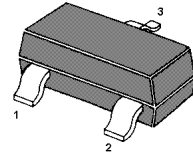
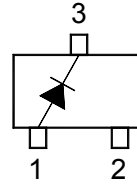


# BAT750

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER DIODES

### Features

- Very low forward voltage drop
- High conductance



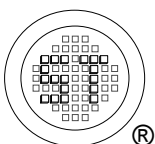
Marking Code: **K77**  
TO-236 Plastic Package

### 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	$R_{\theta JA}$	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 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	$\mu\text{A}$
Total capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	$C_T$	-	175	pF



**SEMTECH ELECTRONICS LTD.**



ISO/TS 16949 : 2009  
Certificate No. 16071300



ISO 14001 : 2004  
Certificate No. 71116



ISO 9001 : 2008  
Certificate No. 50719410



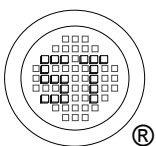
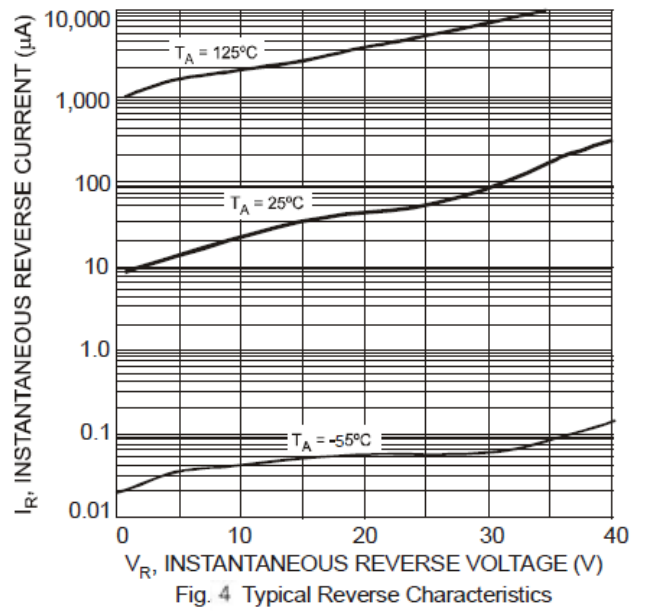
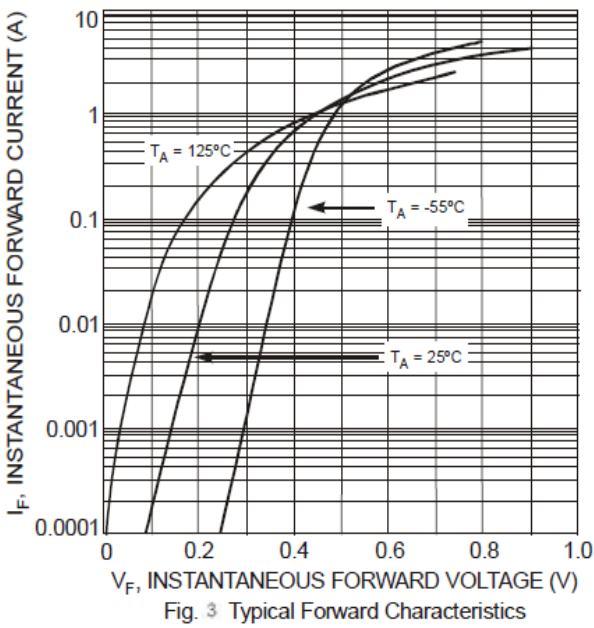
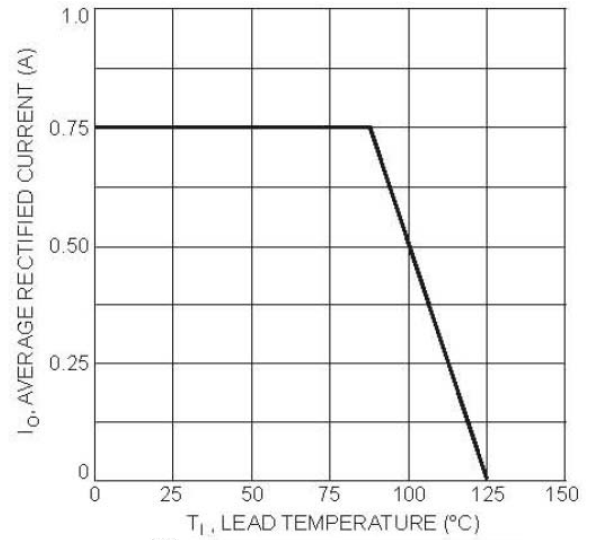
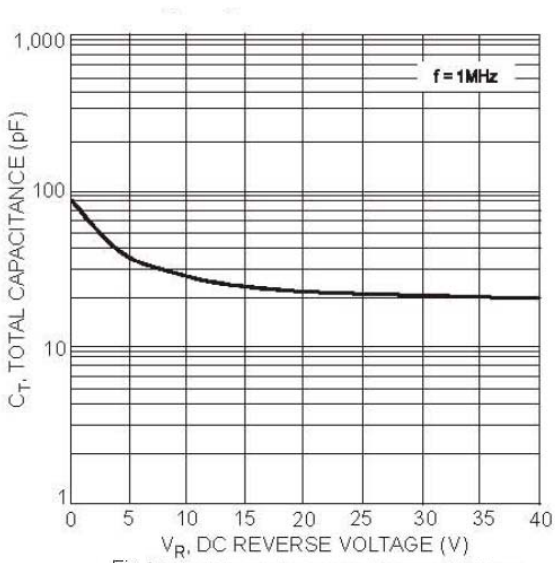
BS-OHSAS 18001 : 2007  
Certificate No. 71116



IECQ QC 080000  
Certificate No. PRC-16294-16291

Dated: 19/05/2016 Rev: 02

# BAT750



**SEMTECH ELECTRONICS LTD.**



ISO/TS 16949 : 2009 Certificate No. 16071300 | ISO 14001 : 2004 Certificate No. 71116 | ISO 9001 : 2008 Certificate No. 50710410 | BS-OHSAS 18001 : 2007 Certificate No. 71116 | IECQ QC 080000 Certificate No. PRC-16294-1623

Dated: 19/05/2016 Rev: 02