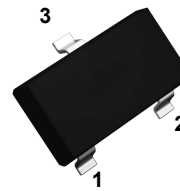
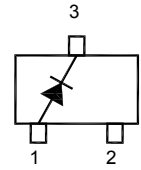


**Features**

- Very low forward voltage drop
- High conductance



SOT-23



Schematic Diagram

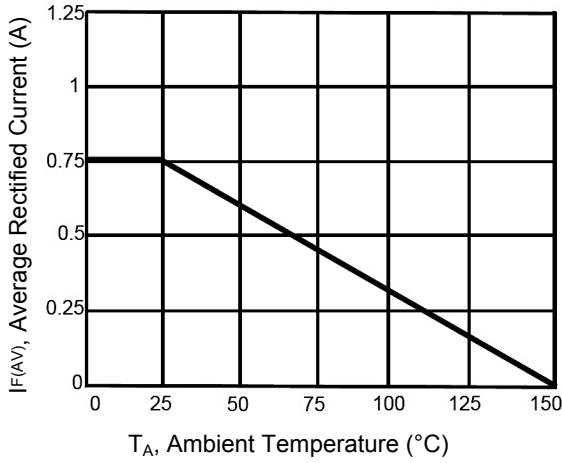
**Absolute Maximum Ratings** ( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

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

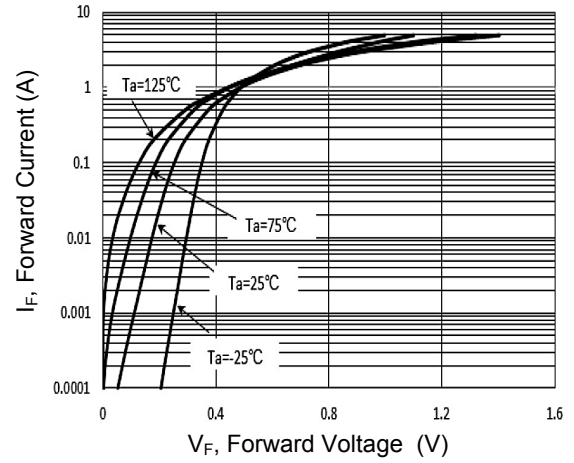
**Electrical Characteristics** ( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=300\mu\text{A}$	40	-	-	V
Forward Voltage	$V_F$	$I_F=50\text{mA}$	-	-	280	mV
		$I_F=100\text{mA}$	-	-	310	
		$I_F=250\text{mA}$	-	-	350	
		$I_F=500\text{mA}$	-	-	420	
		$I_F=750\text{mA}$	-	-	490	
		$I_F=1\text{A}$	-	-	540	
		$I_F=1.5\text{A}$	-	-	650	
Reverse Current	$I_R$	$V_R=30\text{V}$	-	-	100	$\mu\text{A}$
Total Capacitance	$C_T$	$V_R=0\text{V}, f=1\text{MHz}$	-	150	-	pF

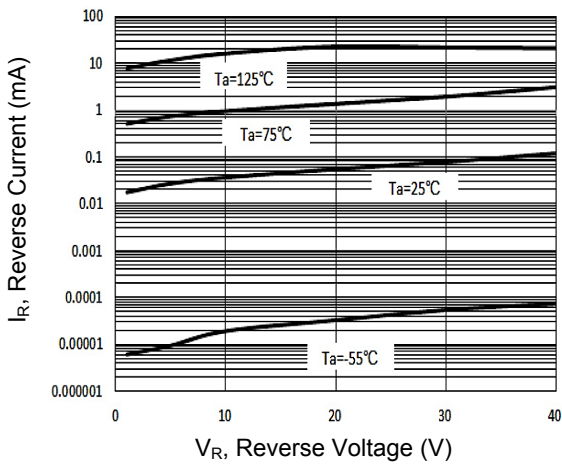
**Electrical Characteristic Curves**



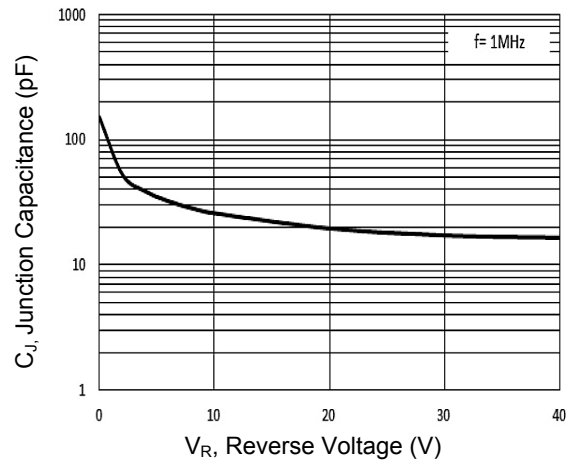
**Figure 1. Average Rectified Current Derating Curve**



**Figure 2. Forward Characteristic Curve**

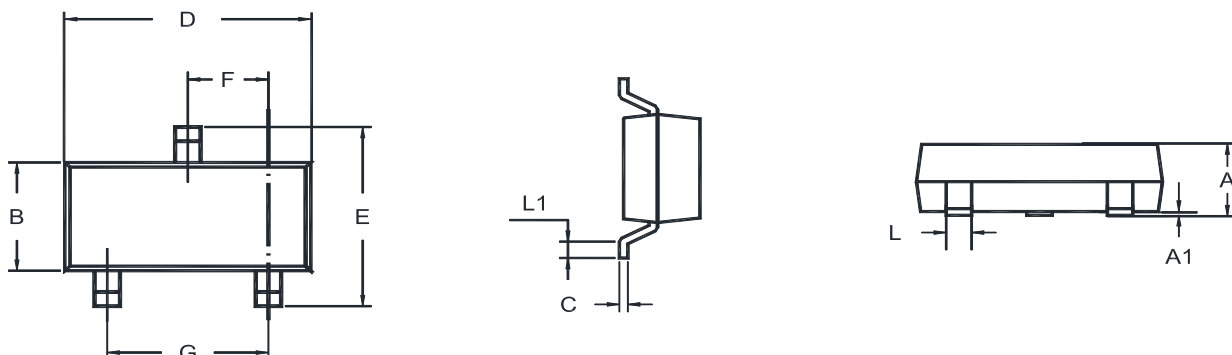


**Figure 3. Reverse Characteristic Curve**



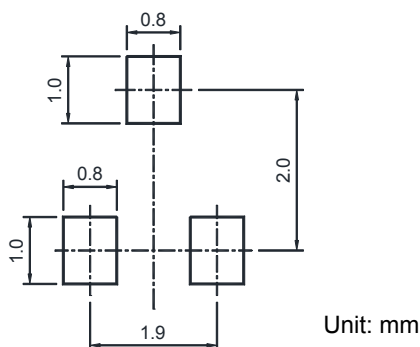
**Figure 4. Junction Capacitance**

**Package Outline Dimensions (SOT-23)**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.890	1.200	0.035	0.047
A1	0.013	0.100	0.001	0.004
B	1.200	1.400	0.047	0.055
C	0.080	0.190	0.003	0.007
D	2.800	3.040	0.110	0.120
E	2.200	2.600	0.087	0.102
F	0.890	1.020	0.035	0.040
G	1.780	2.040	0.070	0.080
L	0.370	0.510	0.015	0.020
L1	0.200 MIN		0.008 MIN	

**Recommended Pad Layout**



**Order Information**

Device	Package	Marking	Carrier	Quantity
GSBAT750	SOT-23	K77	Tape & Reel	3,000 Pcs / Reel