

BAT750

PRV : 40 Volts
Io : 750 mA

FEATURES :

- * Very low forward voltage drop
- * High Conductance
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SOT-23 plastic Case
- * Marking Code : K77

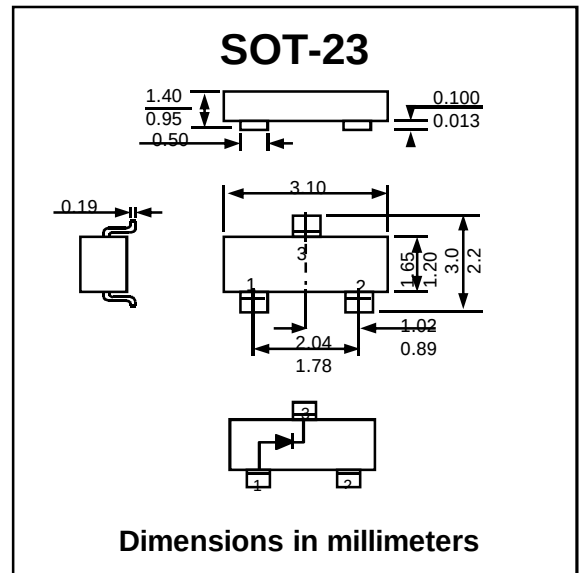
ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Maximum Rectified Average Forward Current	$I_{F(AV)}$	750	mA
Maximum Peak Forward Surge Current at $t = 8.3$ ms	I_{FSM}	5.5	A
Power Dissipation	P_{tot}	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	286	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Test Condition	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 300 \mu A$	$V_{(BR)R}$	40	-	V
Forward Voltage	$I_F = 50$ mA	V_F	-	280	mV
	$I_F = 100$ mA		-	310	
	$I_F = 250$ mA		-	350	
	$I_F = 500$ mA		-	420	
	$I_F = 750$ mA		-	490	
	$I_F = 1$ A		-	540	
	$I_F = 1.5$ A		-	650	
Reverse Current	$V_R = 30$ V	I_R	-	100	μA
Total Capacitance	$V_R = 0$ V, $f = 1$ MHz	C_T	-	5.0	pF

SURFACE MOUNT SCHOTTKY BARRIER DIODE



RATINGS AND CHARACTERISTIC CURVES (BAT750)

FIG.1 - FORWARD CURRENT DERATING CURVE

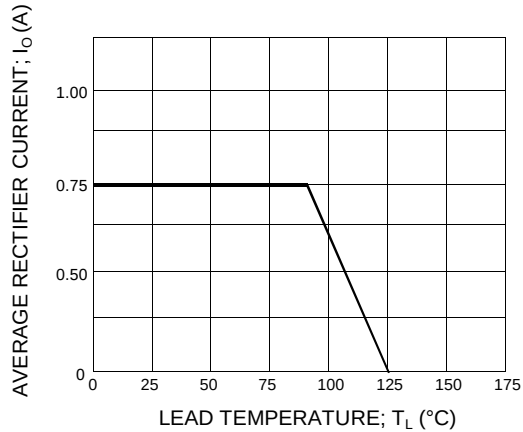


FIG.2 - TOTAL CAPACITANCE VS. REVERSE VOLTAGE

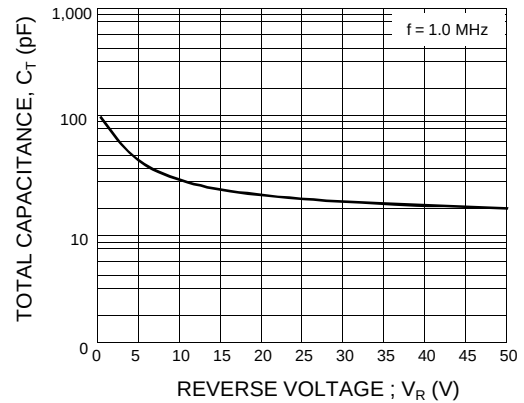


FIG.3 - FORWARD CHARACTERISTICS

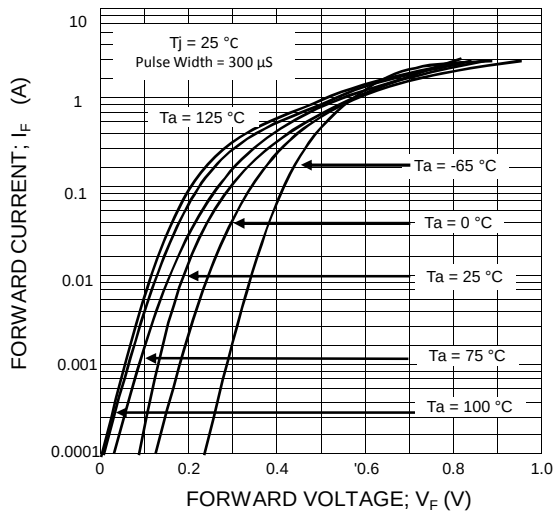


FIG.4 - REVERSE CHARACTERISTICS

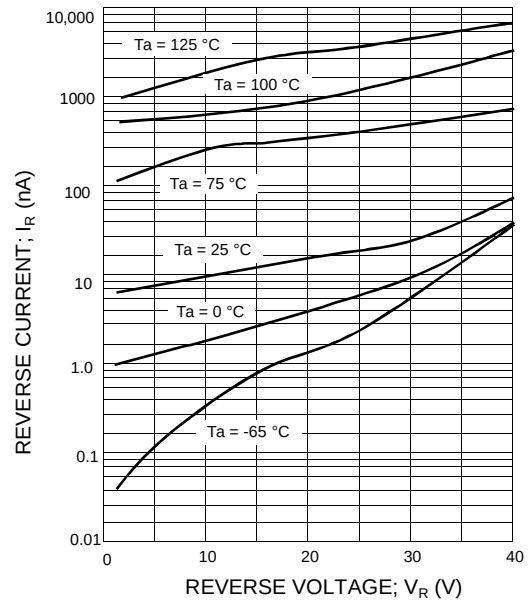


FIG.5 - TYPICAL SAFE OPERATING AREA

