

## Schottky barrier diode

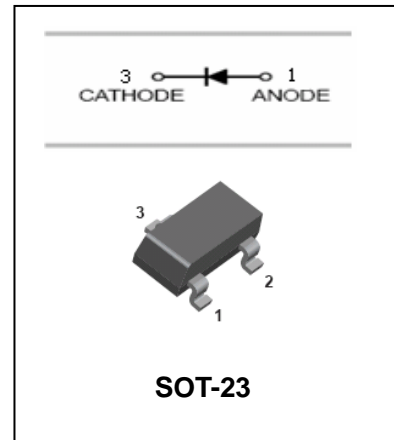
## BAT720

### FEATURES

- Ultra high switching speed.
- Low forward voltage.
- Guard ring protected.
- Small plastic SMD package.



Lead-free



### APPLICATIONS

- Ultra high-speed switching.
- Voltage clamping.
- Protection circuits.

### ORDERING INFORMATION

Type No.	Marking	Package Code
BAT720	L61	SOT-23

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
DC Reverse Voltage	$V_R$	40	V
Forward Continuous Current	$I_F$	500	mA
Non-repetitive forward Surge @ $t_p < 10\text{ms}$	$I_{FSM}$	2	A
Power Dissipation	$P_d$	150	mW
Operating Junction Temperature Range	$T_j$	125	°C
Storage Temperature Range	$T_{STG}$	-65 to +125	°C

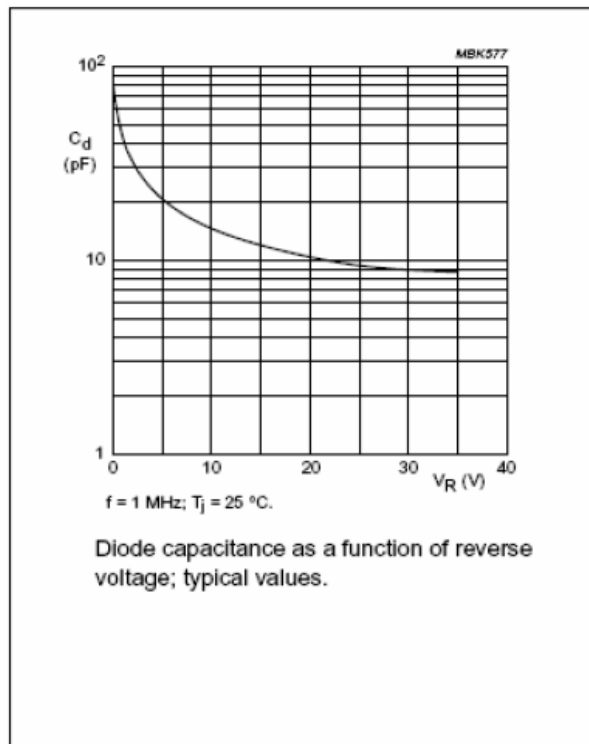
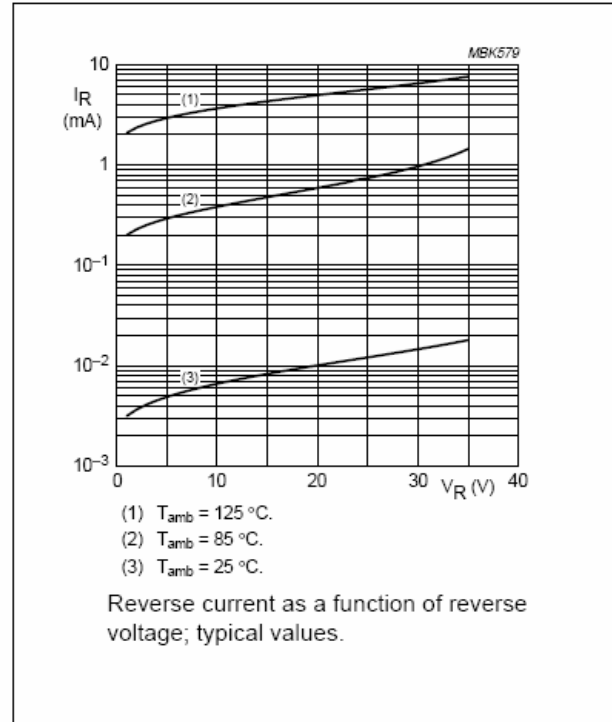
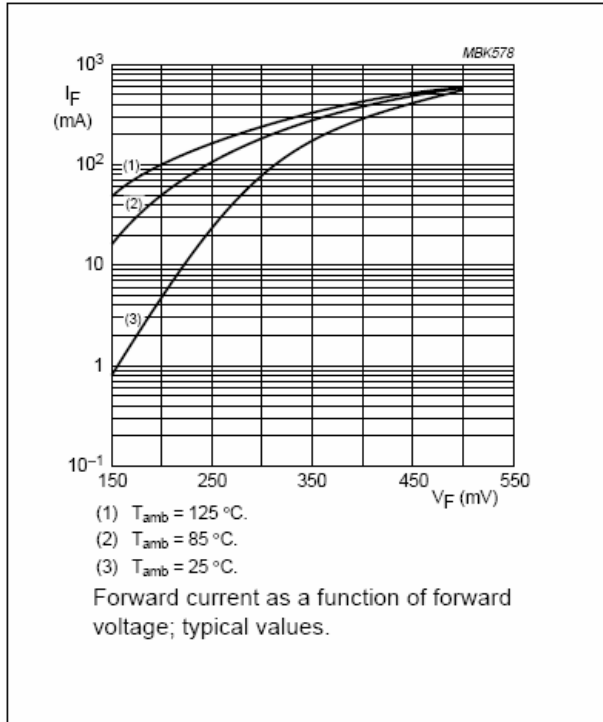
### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Forward Voltage	$V_F$	-	550	mV	$I_F=500\text{mA}$
Reverse Leakage Current	$I_R$	-	100 10	$\mu\text{A}$ mA	$V_R=35\text{V}$ $V_R=35\text{V } T_j=100^\circ\text{C}$
Diode Capacitance	$C_D$	60	90	pF	$V_R=0\text{V}, f=1.0\text{MHz}$

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TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified



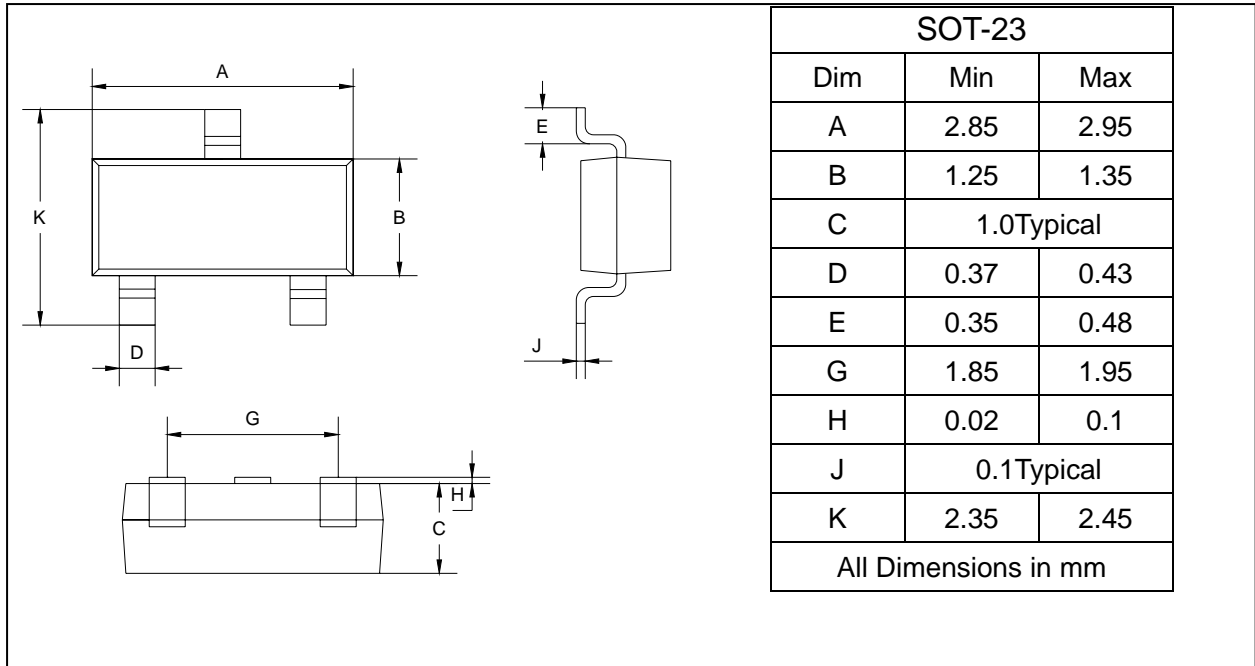
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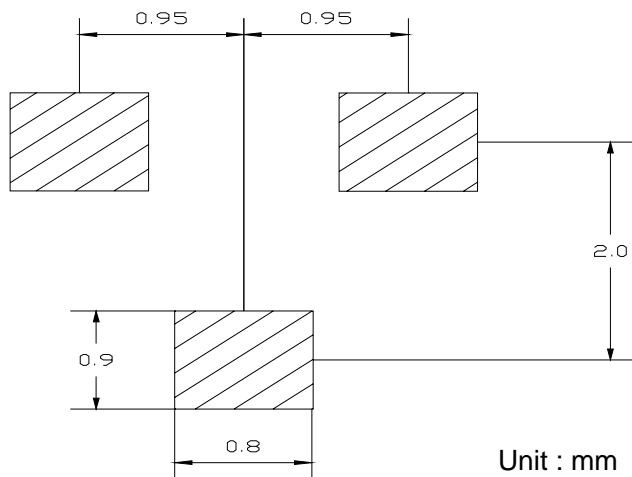
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
BAT720	SOT-23	3000/Tape&Reel