

Schottky barrier diode

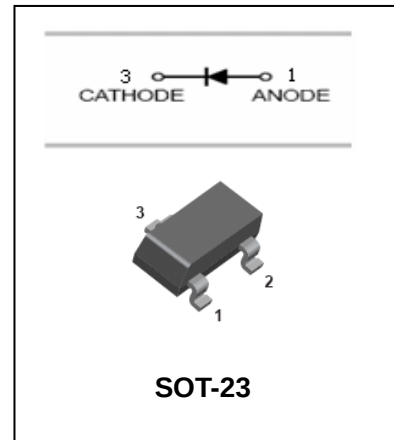
BAT720

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	350	mW
Operating Junction Temperature Range	T_j	125	°C
Storage Temperature Range	T_{STG}	-65 to +125	°C

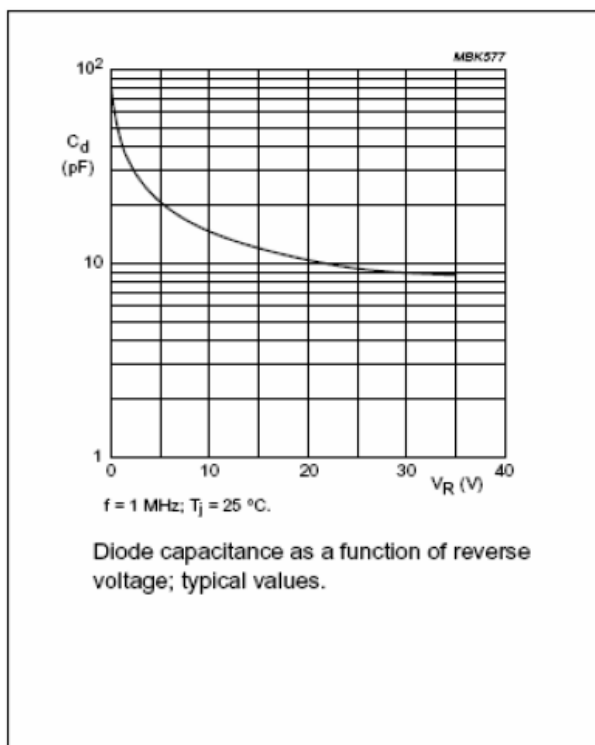
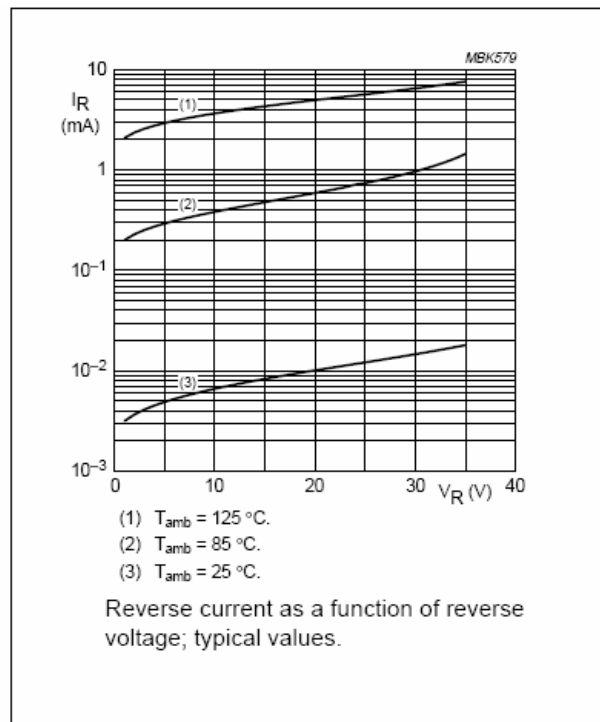
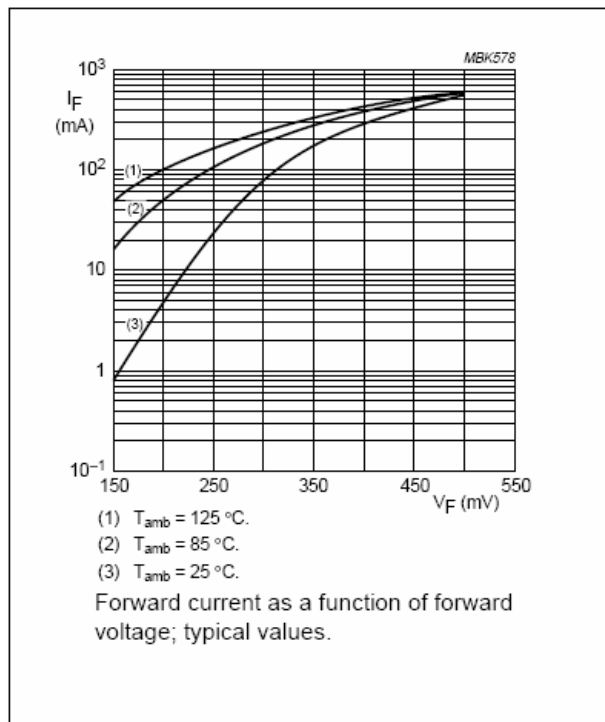
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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	μA 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



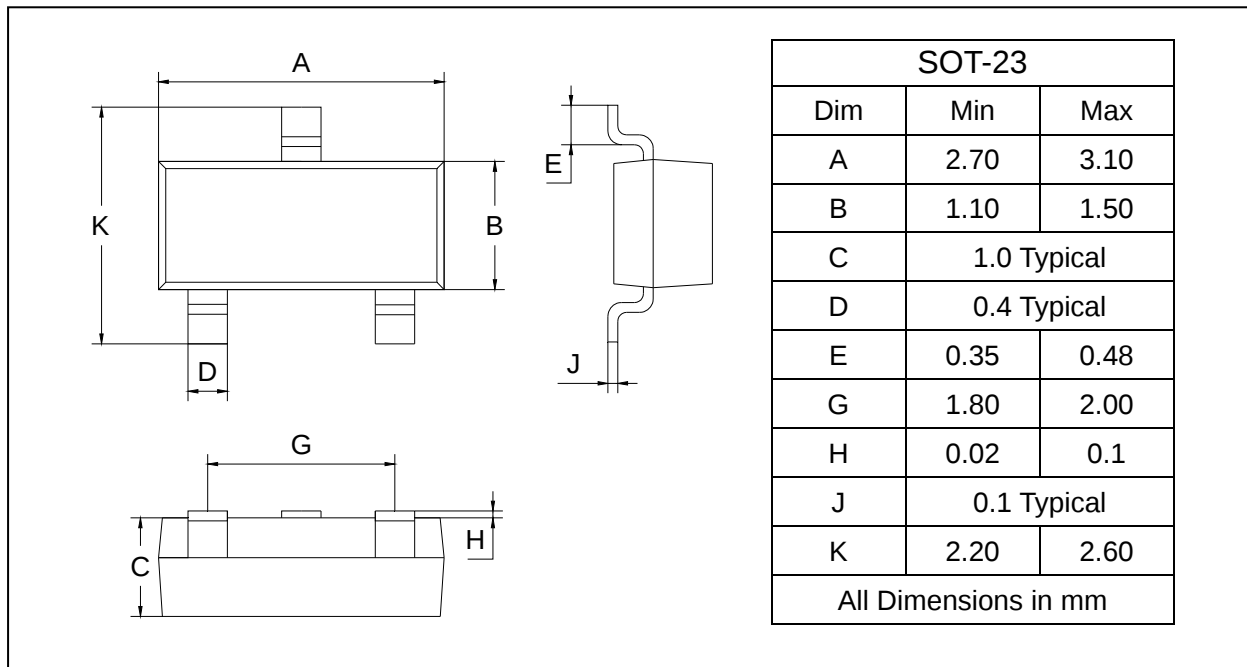
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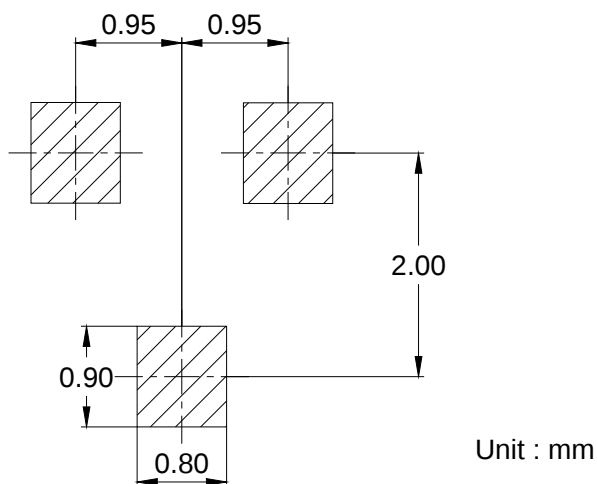
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

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