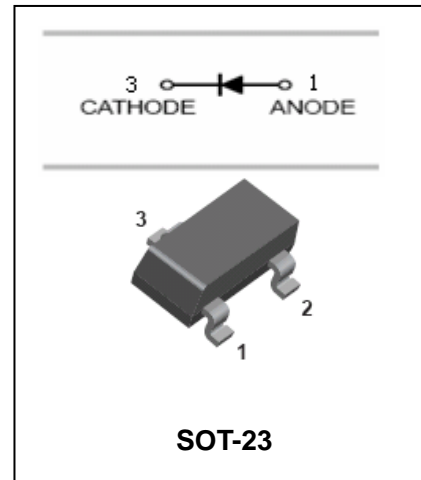


Surface mount switching diode

**BAS16**

**FEATURES**

- Fast switching speed.
- Surface mount package ideally suited for Automatic insertion.
- For general purpose switching applications.
- High conductance.



**APPLICATIONS**

- High speed switching application.

**ORDERING INFORMATION**

Type No.	Marking	Package Code
BAS16	A6	SOT-23

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

Characteristic	Symbol	Limits	Unit
Repetitive Peak reverse voltage	$V_{RM}$	85	V
DC Reverse Voltage	$V_R$	75	V
Forward Continuous Current	$I_F$	250	mA
Non-Repetitive Peak Forward Surge Current @t=1.0µs	$I_{FSM}$	4.5	A
Power Dissipation $T_S=54^\circ\text{C}$	$P_d$	370	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	375	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150	$^\circ\text{C}$



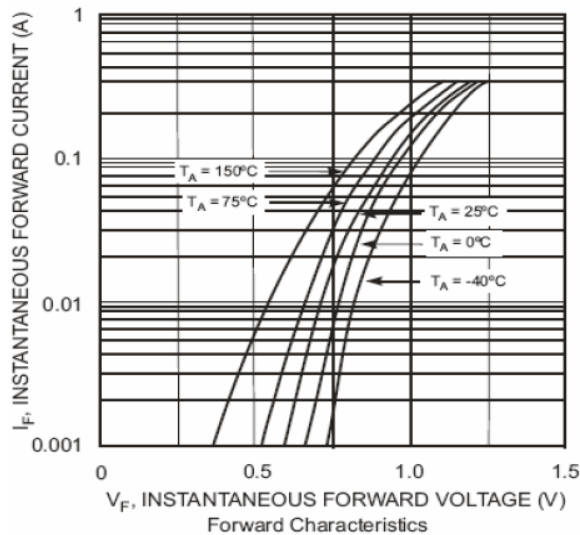
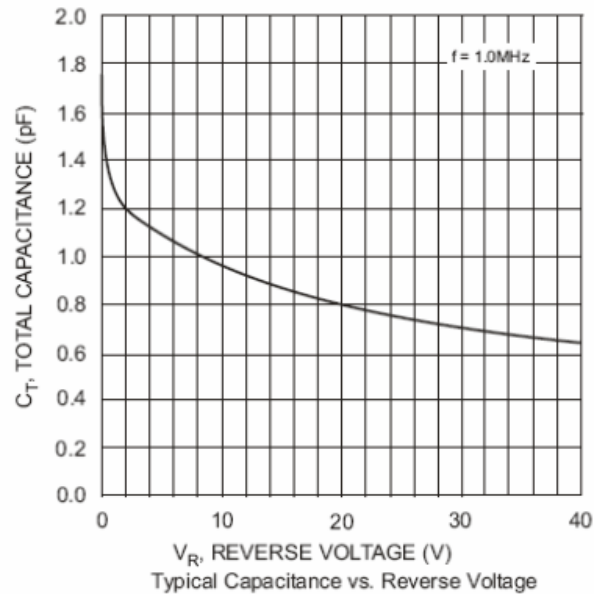
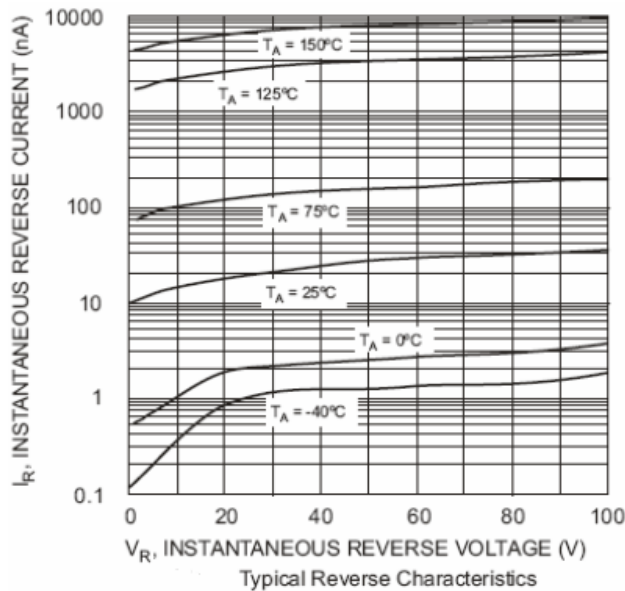
Surface mount switching diode

**BAS16**

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	-	V	$I_R=100\mu A$
Forward Voltage	$V_{FM}$	-	-	0.715 0.855 1.0 1.25	V	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$
Reverse Leakage Current	$I_R$	-	-	1.0	$\mu A$	$V_R=70V$
Junction Capacitance	$C_j$	-	-	2	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	-	6	ns	$I_F=I_R=10mA, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



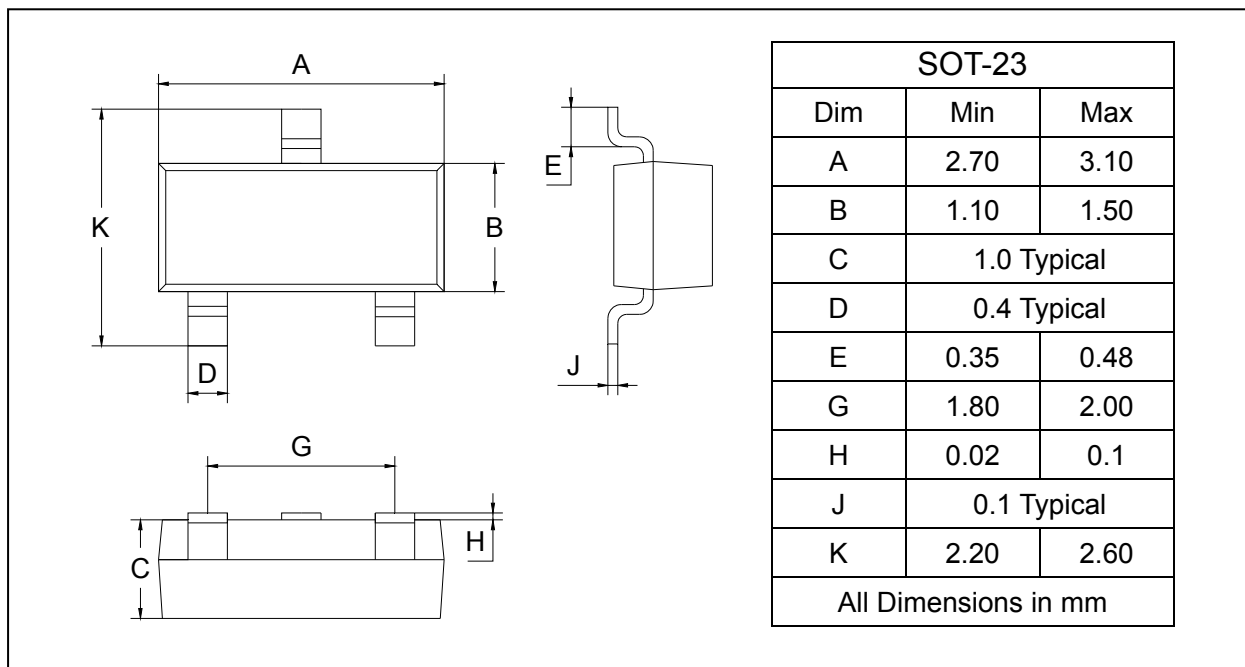
Surface mount switching diode

**BAS16**

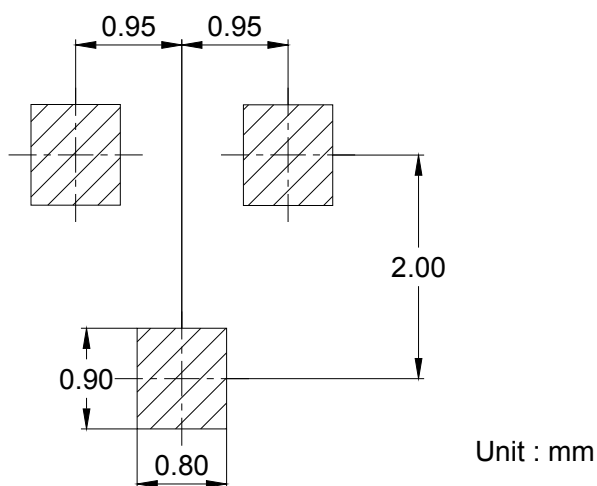
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAS16	SOT-23	3000/Tape&Reel