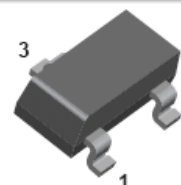
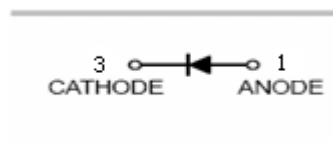




FEATURES

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



SOT-23

APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS16	A6	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

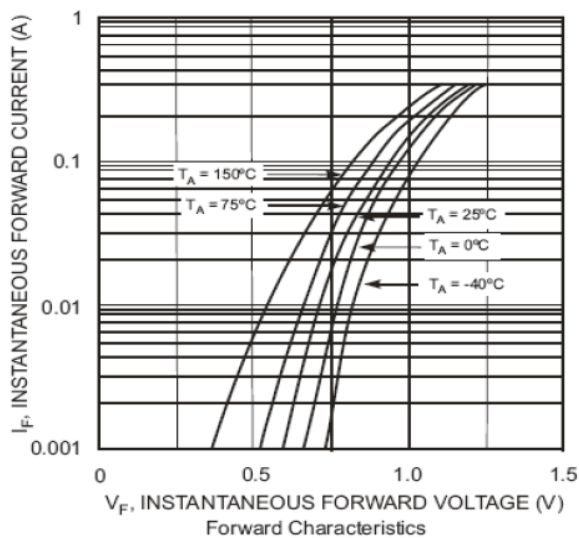
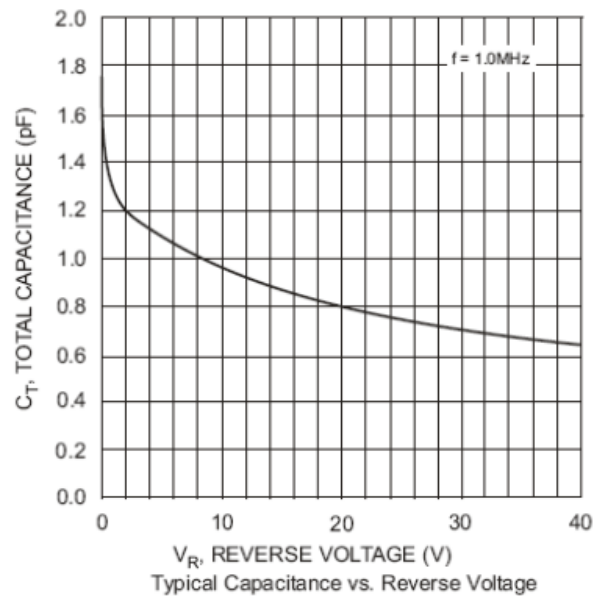
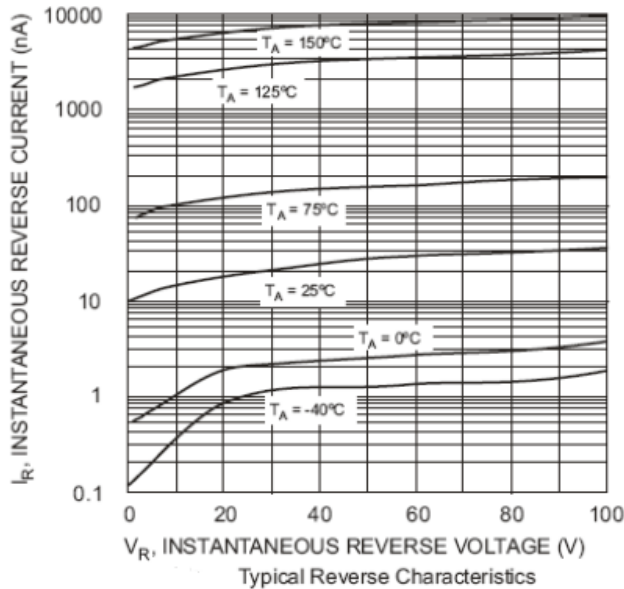
Characteristic	Symbol	Limits	Unit
Repetitive Peak reverse voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	75	V
Forward Continuous Current	I_F	250	mA
Non-Repetitive Peak Forward Surge Current @t=1.0μs	I_{FSM}	4.5	A
Power Dissipation $T_S=54^\circ\text{C}$	P_d	370	mW
Thermal Resistance Junction to Ambient Air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



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	μA	$V_R=70V$
Junction Capacitance	C_j	-	-	2	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-	-	4	ns	$I_F=I_R=10mA, R_L=100\Omega$

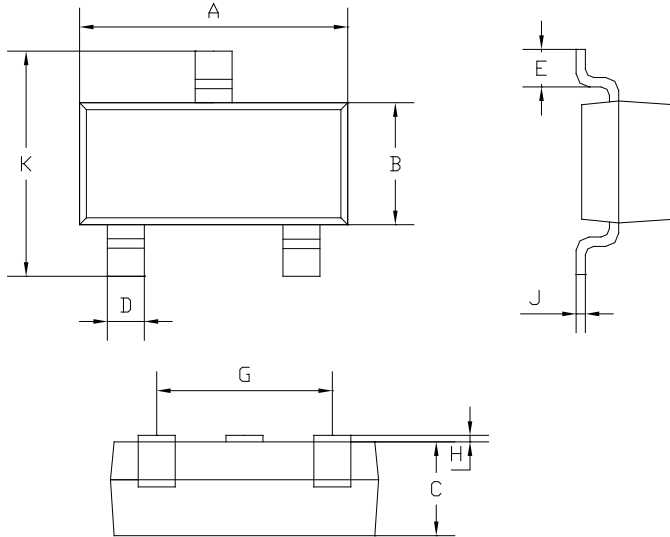
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





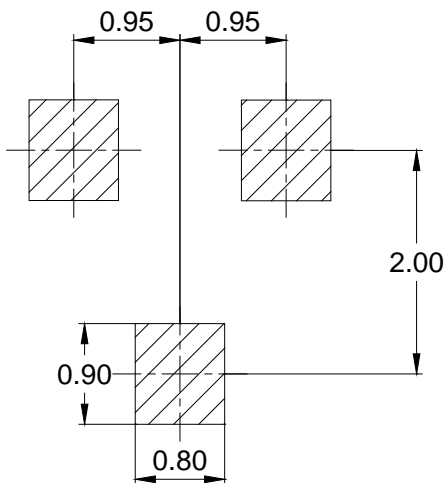
PACKAGE OUTLINE

Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

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