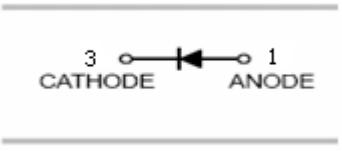
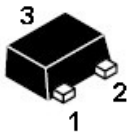
Surface mount switching diode **BAS16M**

FEATURES

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

Lead-free





SOT-723

APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS16M	A6	SOT-723

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

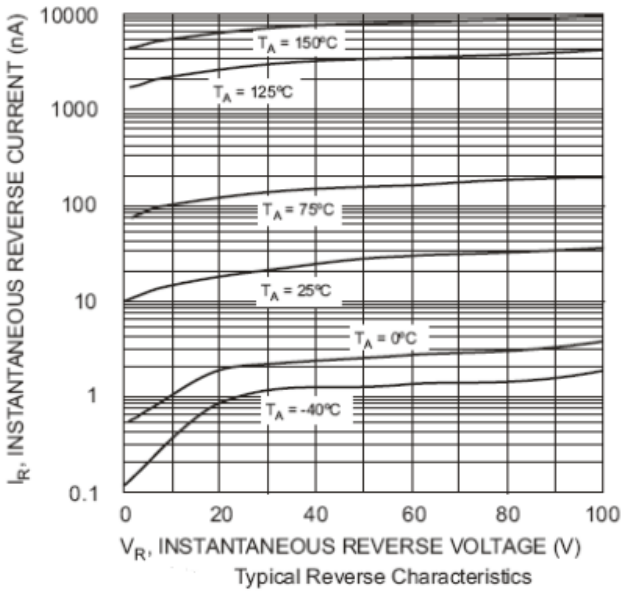
Characteristic	**Symbol**	**Limits**	**Unit**
Repetitive Peak reverse voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	75	V
Forward Continuous Current	I_F	250	mA
Non-Repetitive Peak Forward Surge Current @t=1.0μs	I_{FSM}	4.5	A
Power Dissipation T_S=54℃	P_d	150	mW
Thermal Resistance Junction to Ambient Air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

Surface mount switching diode **BAS16M**

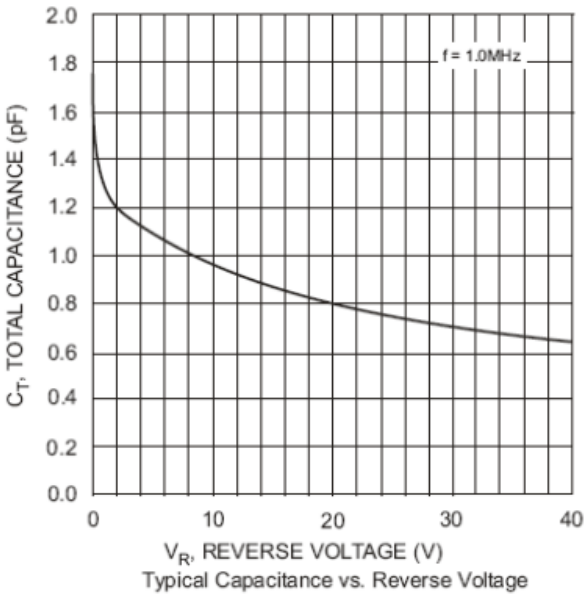
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Characteristic	Symbol	Min	Typ	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	-	V	I_R= 100μA
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=100Ω

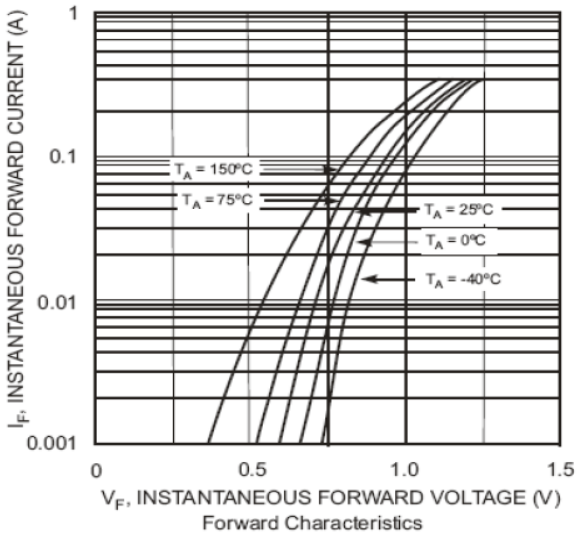
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified



Typical Reverse Characteristics



Typical Capacitance vs. Reverse Voltage

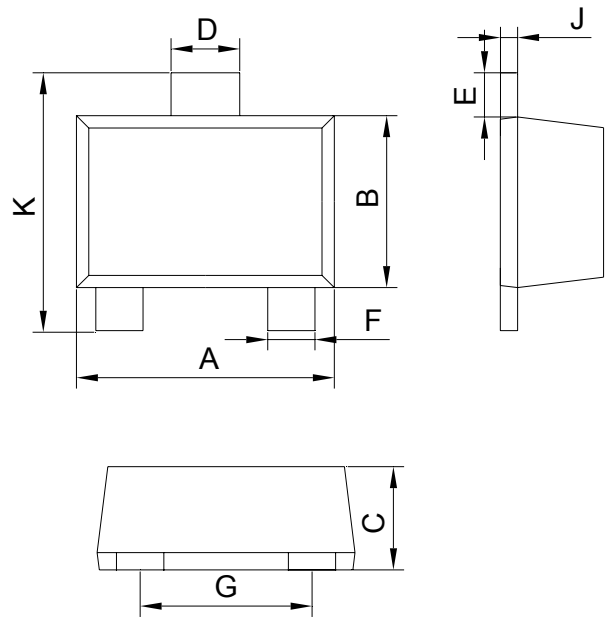


Forward Characteristics

Surface mount switching diode **BAS16M**

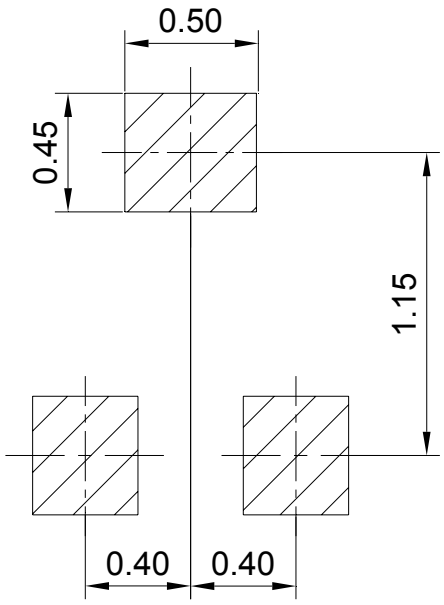
PACKAGE OUTLINE

Plastic surface mounted package SOT-723



SOT-723		
Dim	Min	Max
A	1.10	1.30
B	0.70	0.90
C	0.54Max	
D	0.22	0.42
E	0.10	0.30
F	0.12	0.32
G	0.80Typical	
J	0.10Typical	
K	1.1	1.3
All Dimensions in mm		

SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAS16M	SOT-723	10000/Tape&Reel