BAS16X

FEATURES

- Small package.

- High speed switching.

Pb
Lead-free

SOD-523

APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS16X	A6	SOD-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC Reverse voltage	V_{RRM} V_{RWM} V_R	85	V
RMS Reverse voltage	$V_{R(RMS)}$	60	V
Continuous forward current	I_F	155	mA
Repetitive peak forward current	I_{FRM}	500	mA
Non-Repetitive peak forward surge current @t=1.0μs @t=1.0ms @t=1.0s	I_{FSM}	4.0 1.0 0.5	A
Total power dissipation	P_{tot}	150	mW
Total resistance junction to ambient	$R_{\theta JA}$	833	℃/W
Junction temperature	T_j	150	℃
Storage temperature	T_{stg}	-65 to +150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)R}$	85			V	I_R=100μA
Forward voltage	V_F			0.715 0.815 1 1.25	V	I_F=1mA I_F=10mA I_F=50mA I_F=150mA
Reverse current	I_R			2.0 30	μA nA	V_R=75V V_R=25V
Diode capacitance	C_d			1.5	pF	V_R=0V,f=1MHz
Reverse recovery time	t_{rr}			4	ns	I_F=I_R=10mA,R_L=100Ω

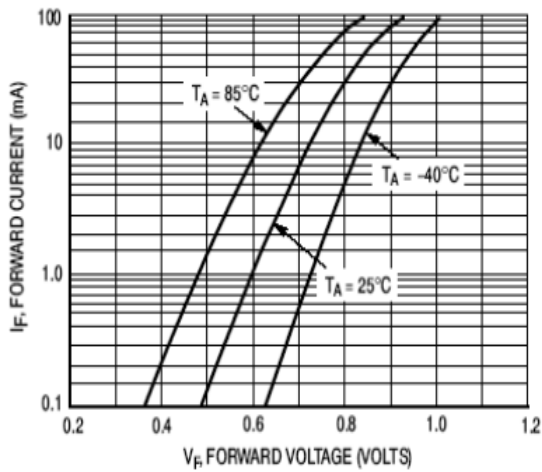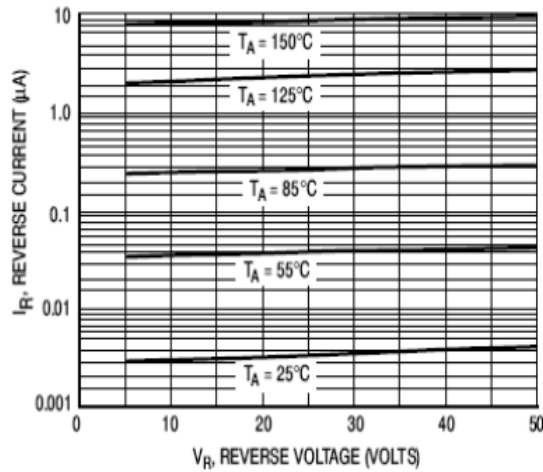## TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

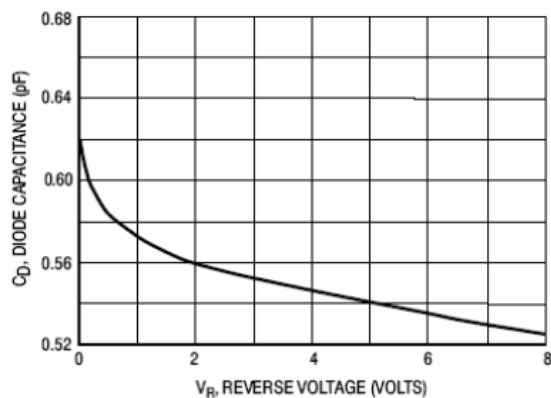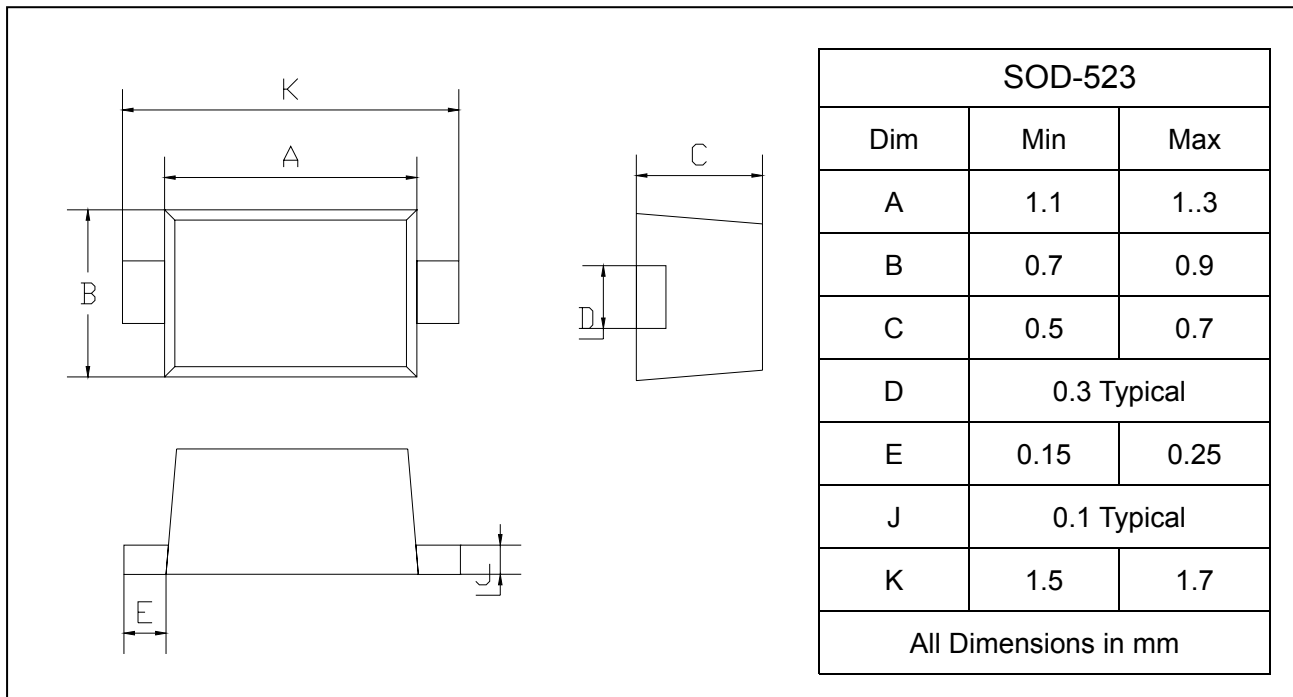Figure 2. Forward Voltage
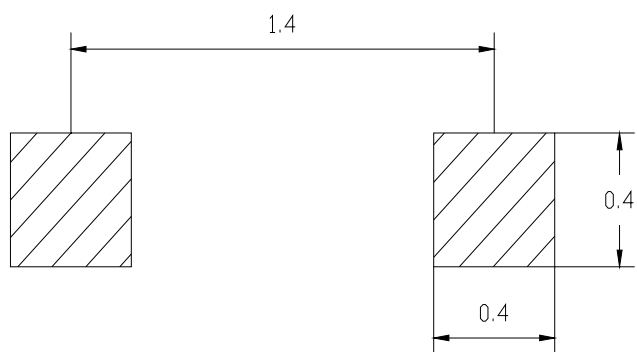

Figure 3. Leakage Current

Figure 4. Capacitance

PACKAGE OUTLINE

Plastic surface mounted package   SOD-523

SOD-523		
Dim	Min	Max
A	1.1	1..3
B	0.7	0.9
C	0.5	0.7
D	0.3 Typical	
E	0.15	0.25
J	0.1 Typical	
K	1.5	1.7
All Dimensions in mm		

SOLDERING FOOTPRINT

Unit：mm

PACKAGE INFORMATION

Device	Package	Shipping
BAS16X	SOD-523	3000/Tape&Reel

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