



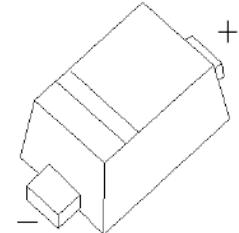
**迈拓电子**  
MAITUO ELECTRONIC



## BAS16X Swithching Diode

### FEATURES

- High-Speed Switching Applications
- Lead Finish: 100% Matte Sn ( Tin )
- Qualified Reflow Temperature: 260 °C
- Extremely Small SOD-523 Package



### MARKING: A6

SOD-523

### MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ unless otherwise noted )

Symbol	Parameter	Value	Unit
$V_R$	Reverse Voltage	75	V
$I_F$	Forward Continuous Current	200	mA
$I_{F\text{SM}}$	Non-repetitive Peak Forward SurgeCurrent@t=8.3ms	2	A
$P_D$	Power Dissipation	150	mW
$R_{\text{OJA}}$	Thermal Resistance from Junction to Ambient	833	°C/W
$T_J, T_{\text{stg}}$	Operation Junction and Storage Temperature Range	-55~+150	°C

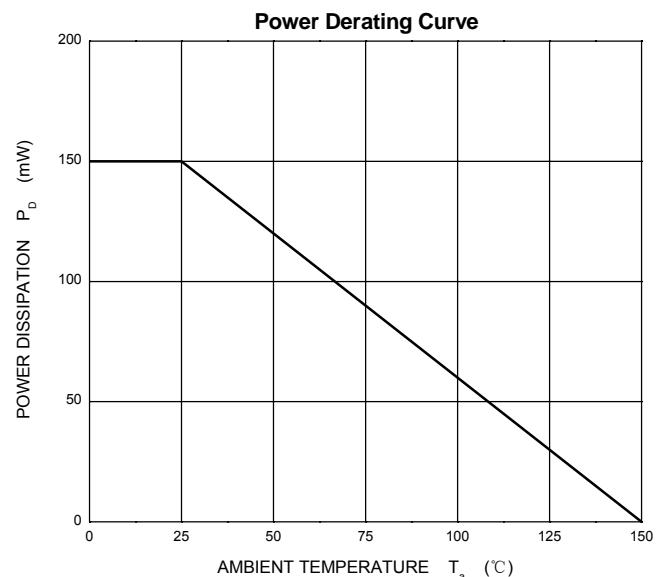
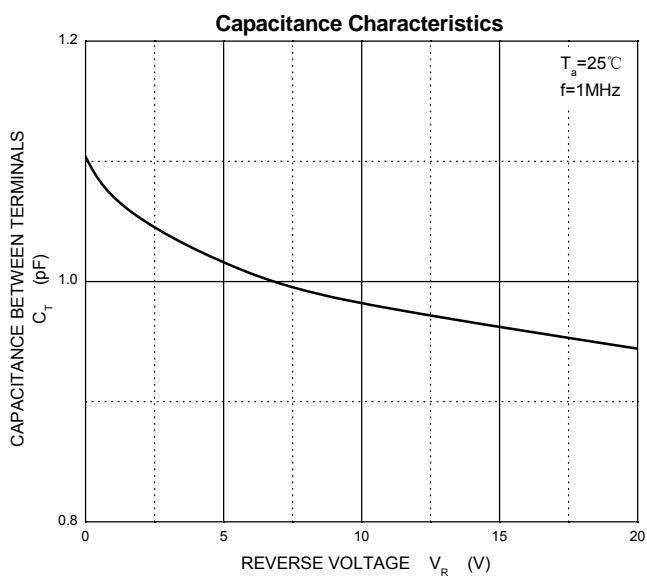
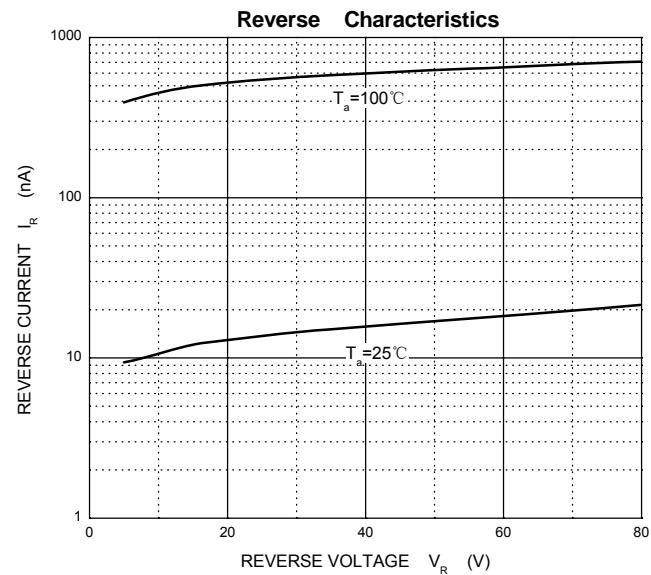
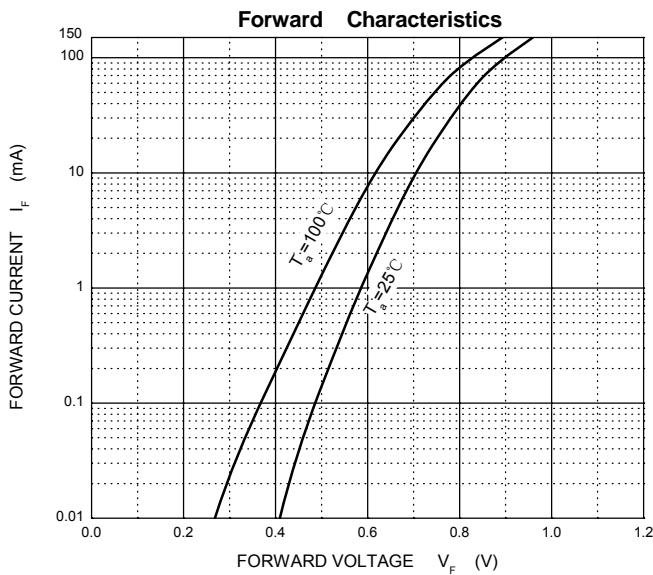
### Electrical Ratings @ $T_a=25^\circ\text{C}$

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(\text{BR})}$	75				$I_R=100\mu\text{A}$
Forward voltage	$V_{F1}$			715	mV	$I_F=1\text{mA}$
	$V_{F2}$			855		$I_F=10\text{mA}$
	$V_{F3}$			1000		$I_F=50\text{mA}$
	$V_{F4}$			1250		$I_F=150\text{mA}$
Reverse recovery Time	$t_{rr}$			6.0	ns	$I_F=I_R=10\text{mA}, R_L=50\Omega$
Reverse current	$I_R$			1.0	$\mu\text{A}$	$V_R=75\text{V}$
Forward recovery voltage to	$V_{FR}$			1.75	V	$I_F=10\text{mA}, t_r= 20\text{ns}$
Diode capacitance	$C_D$			2.0	pF	$V_R=0\text{V}, f=1\text{MHz}$
Stored charge	$Q_s$			45	pC	$I_F=10\text{mA}, V_R=5.0\text{V}, R_L=500\Omega$



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## Typical Characteristics



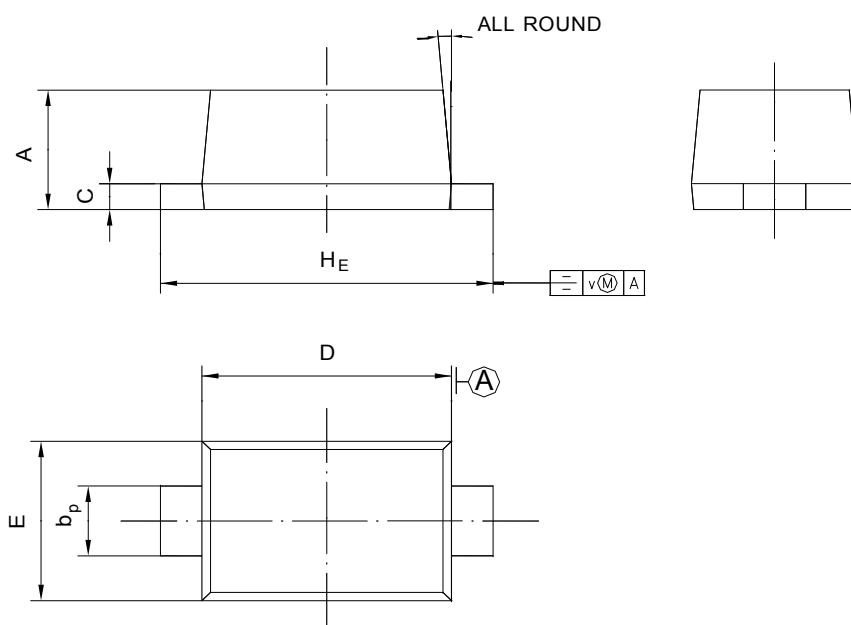


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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	$b_p$	C	D	E	$H_E$	V	$\angle$
mm	0.68	0.4	0.135	1.25	0.85	1.7	0.1	5°
	0.58	0.3	0.100	1.15	0.75	1.5		