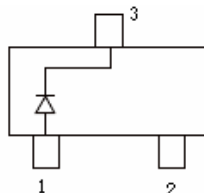




## SOT-23 Plastic-Encapsulate Diodes

**BAS1 16** SWITCHING DIODES**FEATURES**

- Low leakage current applications
- Medium speed witching times



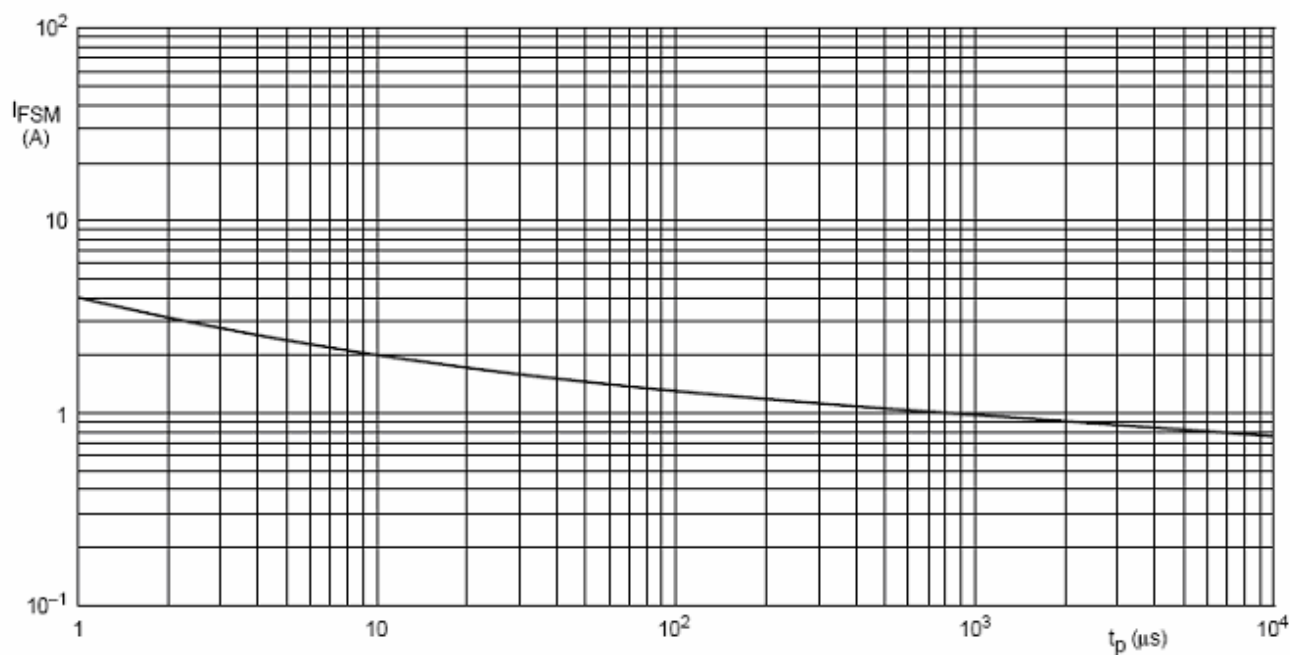
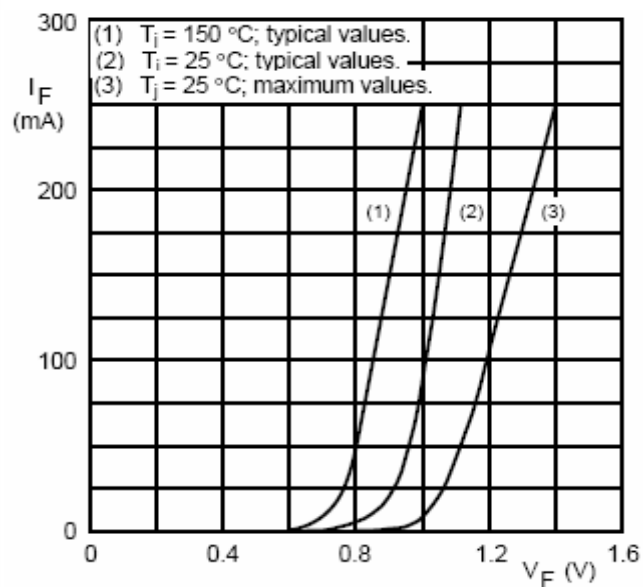
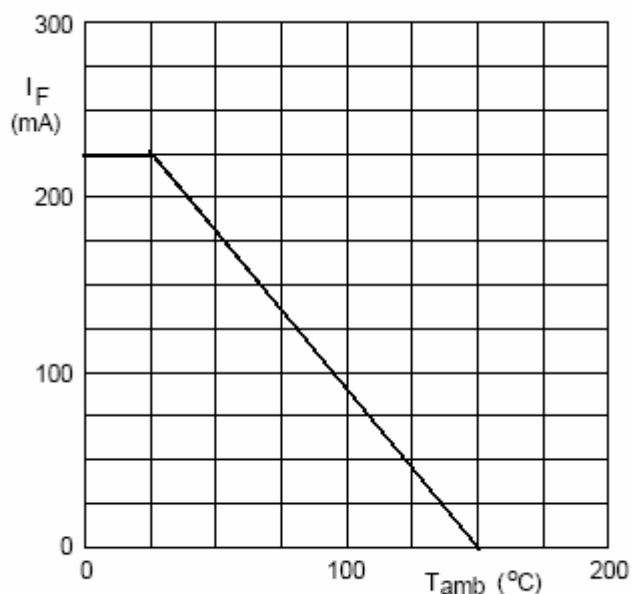
SOT-23

**Maximum Ratings @T<sub>A</sub>=25°C**

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
Forward Continuous Current	I <sub>FM</sub>	200	mA
Power Dissipation	P <sub>D</sub>	225	mW
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>STG</sub>	-55-150	°C

**Electrical Characteristics @T<sub>A</sub>=25°C**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	75			V	I <sub>R</sub> =100μA
Forward voltage	V <sub>F1</sub>			0.9	V	I <sub>F</sub> =1mA
	V <sub>F2</sub>			1	V	I <sub>F</sub> =10mA
	V <sub>F3</sub>			1.1	V	I <sub>F</sub> =50mA
	V <sub>F4</sub>			1.25	V	I <sub>F</sub> =150mA
Reverse current	I <sub>R</sub>			5	nA	V <sub>R</sub> =75V
Diode Capacitance	C <sub>tot</sub>		2		pF	V <sub>R</sub> =0V, f=1MHz
Reverse Recovery Time	t <sub>rr</sub>			3	μS	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1×I <sub>R</sub> , R <sub>L</sub> =100Ω



Based on square wave currents;  $T_j = 25\text{ }^{\circ}\text{C}$  prior to surge.

Maximum permissible non-repetitive peak forward current as a function of pulse duration.

