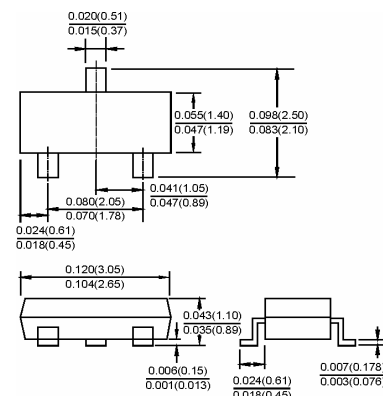


BAS19/BAS20

Switching Diode

SOT-23



Dimensions in inches and (millimeters)

Features

- ✧ Fast Switching Speed
- ✧ Surface Mount Package Ideally Suited for Automatic Insertion
- ✧ For General Purpose Switching Applications
- ✧ High Conductance

Marking: BAS19 JP
BAS20 JR

Maximum Ratings @T_A=25°C

Parameter	Symbol	BAS19	BAS20	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	100	150	V
DC Blocking Voltage	V _R			
Average Rectified Output Current	I _O	200		mA
Power Dissipation	P _d	250		mW
Thermal Resistance. Junction to Ambient Air	R _{θJA}	500		°C/W
Junction temperature	T _J	150		°C
Storage temperature range	T _{STG}	-65-150		°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage BAS19 BAS20	V _{(BR) R}	I _R = 100μA	100 150		V
Reverse voltage leakage current BAS19 BAS20	I _R	V _R =100V V _R =150V		0.1	μA
Forward voltage	V _F	I _F =100mA I _F =200mA		1 1.25	V
Junction Capacitance	C _J	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	I _F =I _R =30mA, I _{rr} =0.1×I _R		50	nS

Typical Characteristics

