



SOT-323 Plastic-Encapsulate Diodes

BAS19W/20W/21W SWITCHING DIODE

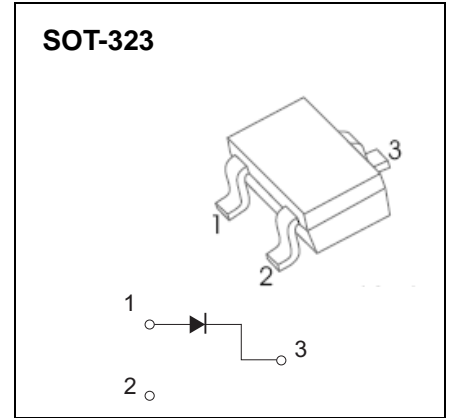
FEATURES

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

Marking: **BAS19W KA8**

BAS20W KT2

BAS21W KT3



Maximum Ratings @Ta=25°C

Parameter	Symbol	BAS19W	BAS20W	BAS21W	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	V_{RRM} V_R	100	150	250	V
Average Rectified Output Current	I_O	200			mA
Power Dissipation	P_d	200			mW
Thermal Resistance. Junction to Ambient	$R_{\theta JA}$	625			°C/W
Junction Temperature	T_J	150			°C
Storage Temperature Range	T_{STG}	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	BAS19W BAS20W BAS21W	$V_{(BR)}$ $I_R=100\mu A$	100 150 250		V
Reverse voltage leakage current	BAS19W BAS20W BAS21W	I_R $V_R=100V$ $V_R=150V$ $V_R=200V$		0.1	μA
Forward voltage	V_F	$I_F=100mA$ $I_F=200mA$		1 1.25	V
Diode capacitance	C_D	$V_R=0V, f=1MHz$		5	pF
Reveres recovery time	t_{rr}	$I_F=I_R=30mA, I_{rr}=0.1 \times I_R$		50	ns

Typical Characteristics

BAS20W

