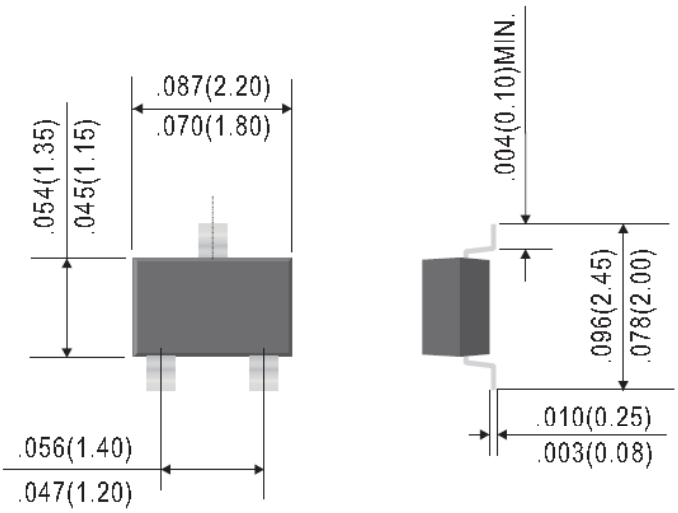
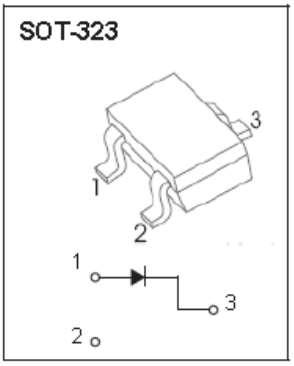
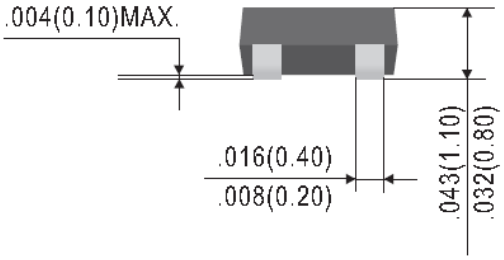
BAS19W, BAS20W, BAS21W

Plastic-Encapsulate Diodes







Dimensions in inches and (millimeters)

FEATURES

·Fast Switching Speed
·Surface Mount Package Ideally Suited for Automatic Insertion
·For General Purpose Switching Applications
·High Conductance
·Pb-Free package is available
·RoHS product for packing code suffix "G"
·Halogen free product for packing code suffix "H"
·Moisture Sensitivity Level 1

MARKING:

BAS19W	**KA8**
BAS20W	**KT2**
BAS21W	**KT3**

BAS19W, BAS20W, BAS21W

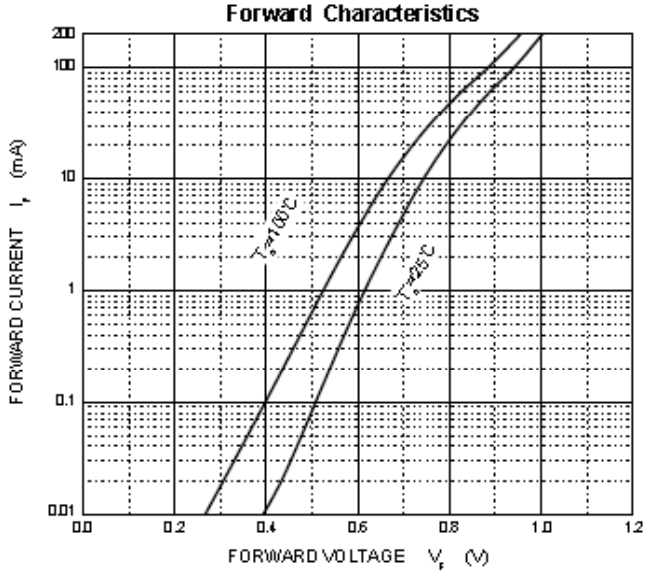
Plastic-Encapsulate Diodes

Maximum Ratings (T_a=25°C unless otherwise noted)					
Parameter	**Symbol**	**BAS19W**	**BAS20W**	**BAS21W**	**Unit**
Peak Repetitive Reverse Voltage DC Blocking Voltage	V_{RRM} V_R	100	150	250	V
Average Rectified Forward Current	I_O	200			mA
Power Dissipation	P_D	200			mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	625			°C/W
Junction temperature	T_J	150			°C
Operating/ Storage temperature	T_{STG}	-55~+150			°C

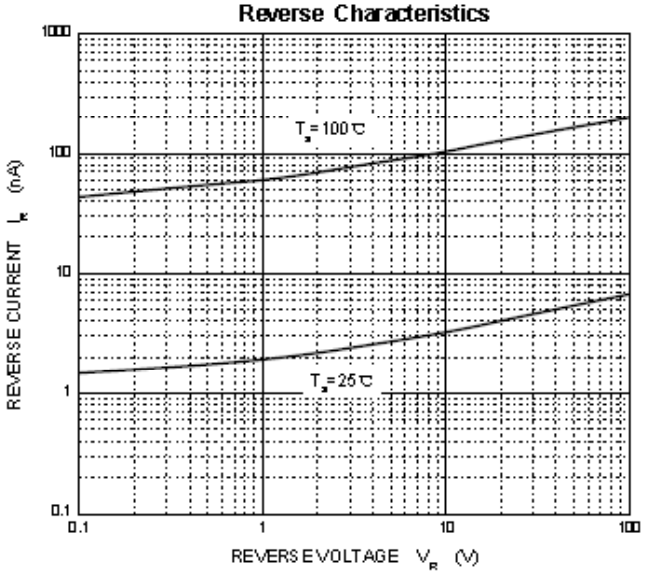
Electrical Characteristics (T_a=25°C unless otherwise noted)							
Parameter		**Symbol**	**Test conditions**	**Min.**	**Typ.**	**Max.**	**Unit**
Reverse Breakdown Voltage	BAS19	$V_{(BR)}$	I_R= 100μA	100	—	—	V
	BAS20			150	—	—	
	BAS21			250	—	—	
Reverse voltage leakage current	BAS19	I_R	V_R=100V	—	—	0.1	μA
	BAS20		V_R=150V	—	—		
	BAS21		V_R=200V	—	—		
Forward voltage		V_F	I_F=100mA	—	—	1	V
			I_F=200mA	—	—	1.25	
Diode capacitance		C_D	V_R=0V, f=1MHz	—	—	5	pF
Reverse Recovery Time		t_{rr}	I_F=I_R=30mA I_{rr}=0.1XI_R	—	—	50	ns

Typical Characteristics

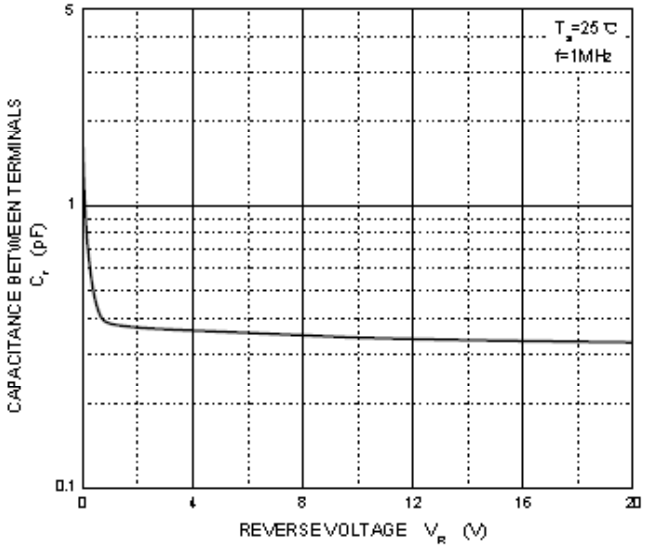
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics Per Diode



Power Derating Curve