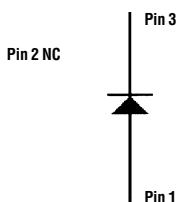
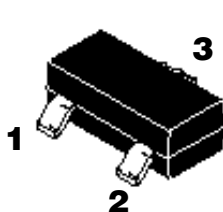
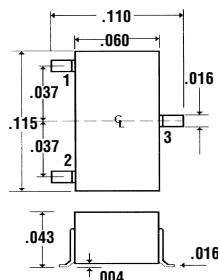


Description



Mechanical Dimensions



BAS19...21

Features

■ **PLANAR PROCESS**

■ **200 mW POWER DISSIPATION**

■ **INDUSTRY STANDARD SOT-23
PACKAGE**

■ **MEETS UL SPECIFICATION 94V-0**

	BAS19...21			Units
Maximum Ratings	BAS19	BAS20	BAS21	
Peak Repetitive Reverse Voltage... V_{RRM}	120	200	250	Volts
Continuous Reverse Voltage... V_R	100	150	200	Volts
Average Forward Rectified Current... $I_{F(AV)}$	.....	200	.....	mAmps
Non-Repetitive Peak Forward Current... I_{FSM}	.....	2.5	.....	Amps
$t = 1\mu s$	.....	0.5	.....	
$t = 1s$	.....	.....	.....	
Repetitive Peak Forward Current... I_{FRM}	.....	625	.....	mAmps
Forward Current (DC)... I_F	.....	200	.....	mAmps
Junction Temperature... T_J	.....	150	.....	°C
Storage Temperature Range... T_{STRG}	.....	-55 to 150	.....	°C
Power Dissipation... P_D	.....	250	.....	mWatts
Electrical Characteristics				
Maximum Forward Voltage... V_F				Volts
$I_F = 100\text{ mA}$	.....	1.0	.....	
$I_F = 200\text{ mA}$	.....	1.25	.....	
Maximum Reverse Current @ Rated V_R ... I_R				nAmps
$T_J = 25^\circ\text{C}$	.....	100	.....	
$T_J = 150^\circ\text{C}$	.....	100	.....	μAmps
Maximum Reverse Recovery Time... t_{RR}	.....	75	.....	ns
Typical Differential Resistance @ $I_F = 10\text{mA}$... R_{DIFF}	.....	5.0	.....	Ω