

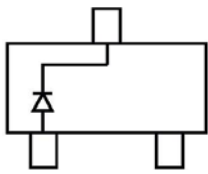
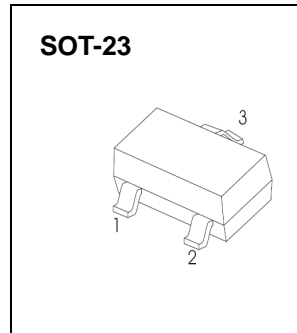


## SOT-23 Plastic-Encapsulate Diodes

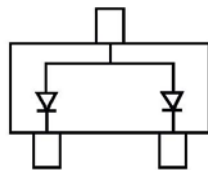
### BAS40/-04/-05/-06 SCHOTTKY BARRIER DIODE

#### FEATURES

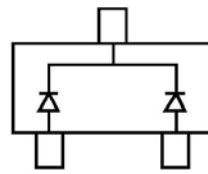
- Low Forward Voltage
- Fast Switching



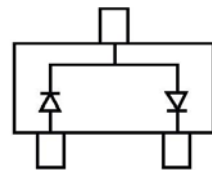
BAS40 MARKING: 43•



BAS40-06 MARKING: 46



BAS40-05 MARKING: 45



BAS40-04 MARKING: 44

#### Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	$V_{RRM}$	40	V
Working peak reverse voltage	$V_{RWM}$		
DC blocking voltage	$V_R$		
Forward continuous current	$I_{FM}$	200	mA
Power dissipation	$P_D$	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	$T_J$	125	°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	$V_{(BR)}$	$I_R = 10\mu A$	40		V
Reverse voltage leakage current	$I_R$	$V_R = 30V$		200	nA
Forward voltage	$V_F$	$I_F = 1mA$ $I_F = 40mA$		380 1000	mV
Diode capacitance	$C_D$	$V_R = 0, f = 1MHz$		5	pF
Reverse recovery time	$t_{rr}$	$I_r = 1mA, I_R = I_F = 10mA$ $R_L = 100\Omega$		5	ns

# Typical Characteristics

# BAS40/-04/-05/-06

