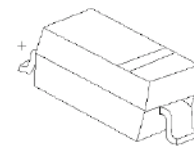


## SOD-323 Plastic-Encapsulate Diodes

### SOD-323

FAST SWITCHING DIODE



### Features:

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

**MARKING: BAS19H: A8**

**BAS20H: T2**

**BAS21H: T3**

### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	BAS19H	BAS20H	BAS21H	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	120	200	250	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$				
Working Peak Reverse Voltage	$V_{RWM}$	100	150	250	V
DC Blocking Voltage	$V_R$				
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Forward Continuous Current	$I_{FM}$		400		mA
Average Rectified Output Current	$I_O$		200		mA
Peak Forward Surge Current @t=1.0ms @ t=1.0s	$I_{FSM}$		2.5 0.5		A
Repetitive Peak Forward Current	$I_{FRM}$		625		mA
Power Dissipation	$P_d$		250		mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$		500		°C/W
Storage Temperature	$T_{STG}$		-55~+150		°C

### Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	$V_{F1}$			1.0	V	$I_F=0.1A$
	$V_{F2}$			1.25		$I_F=0.2A$
Reverse current	$I_R$			0.1	$\mu A$	$V_R=100V$
				0.1		$V_R=150V$
				0.1		$V_R=200V$
Capacitance between terminals	$C_T$			5	pF	$V_R=0V, f=1MHz$
Reverse recovery time	$t_{rr}$			50	ns	$I_F=I_R=30mA$ $I_{rr}=0.1I_R, R_L=100\Omega$