

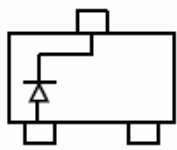
SWITCHING DIODE

BAS21/A/C/S

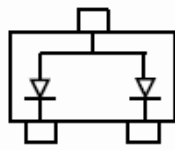
FEATURES

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

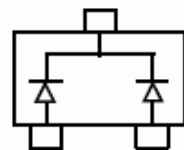
MARKING



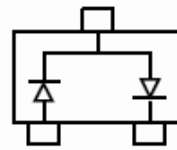
BAS21: JS



BAS21A: JS2



BAS21C: JS3



BAS21S: JS4



SOT-23

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit	
Repetitive peak reverse voltage	V_{RRM}	250	V	
Working peak reverse voltage	V_{RWM}			
DC blocking voltage	V_R			
Forward continuous current	I_{FM}	400	mA	
Average rectified output current	I_O	200	mA	
Non-repetitive peak forward surge current	I_{FSM}	@ t = 1.0μs	2.5	A
		@ t = 1.0s	0.5	
Repetitive peak forward surge current	I_{FRM}	625	mA	
Power dissipation	P_D	225	mW	
Thermal resistance junction to ambient	$R_{\theta JA}$	55	°C/W	
Junction temperature	T_J	150	°C	
Storage temperature range	T_{STG}	-55~+150	°C	

Electrical Ratings @TA=25°C

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	250		V
Reverse voltage leakage current	I_R	$V_R = 200V$		0.1	μA
Forward voltage	V_F	$I_F = 100mA$		1000	mV
		$I_F = 200mA$		1250	
Diode capacitance	C_D	$V_R = 0V, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30mA, I_{tr} = 0.1 \times I_R, R_L = 100\Omega$		50	ns

BAS21/A/C/S Typical Characteristics

