

SOT-23 Plastic-Encapsulate Switching Diode

FEATURES

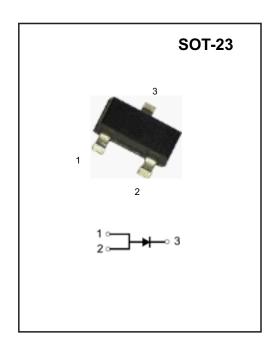
- * Fast Switching Speed
- * For General Purpose Switching Applictions
- * High Conductance
- * Low Current Leakage
- * Small Outline Surface Mount Package
- * RoHS compliant / Green EMC

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * SOT-23 Small Outline Plastic Package
- * Marking:JP

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, resistive or inductive load.



MAXIMUM RATINGS (Ta = 25 °C)

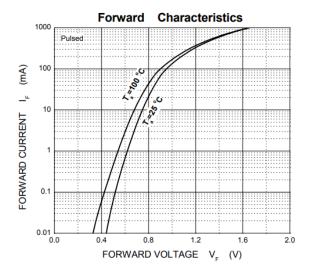
Parameters	Symbol	Value	Unit	
Working Peak Reverse Voltage	VRWM	100	V	
Peak Repetitive Reverse Voltage	VRRM	120	V	
Power Dissipation	Pd	250	mW mA	
Average Rectified Output Current	lo	200		
Non-Repetitive Peak Forward Surge Current	l=	2.5		
@t=8.3mS	lfsм	2.0	A	
Current Squarad Time	l ² t	0.03	A ² Sec	
Forward DC Current	lf	200	mA	
Repetitive Peak Forward Current	IFRM	625	mA	
Operating junction temperature	Tj	-55-+150	°C	
Thermal Resistance from Junction to Ambient	Rеja	500	°C W	

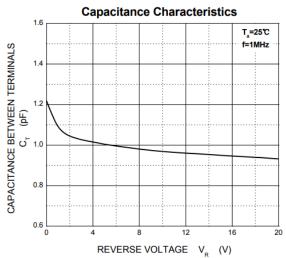
Notes: Valid provided that electrodes are kept at ambient temperature.

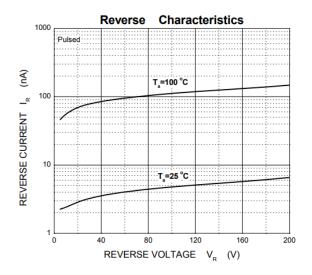
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

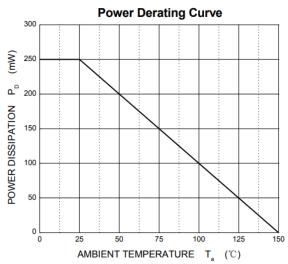
			Limits			
Symbols	Parameter	Test Condition	Min	Max	Unit	
VR	Reverse breakdown voltage	IR=100uA	120		V	
IR	Reverse Leakage Current	VR=100V		100	nA	
VF		IF=100mA		1.0		
	Forward Voltage	IF=200mA		1.25	V	
TRR		IF= IR=30mA		50		
	Reverse Recovery Time	RL=100Ω			nS	
		IRR=3mA				
C _D	Diodes capacitance	VR=0V, f=1MHZ		5	pF	

RATING AND CHARACTERISTICS CURVES (BAS19)





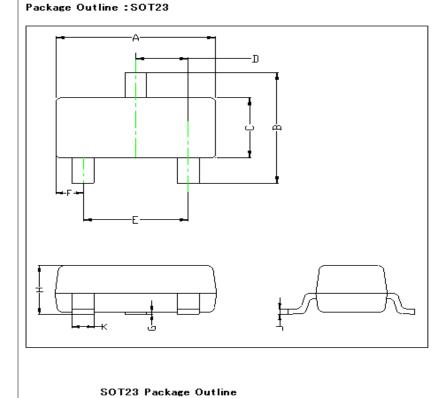






PACKAGE DIMENSIONS





Symbol	Dimensions in mm			
Зушьот	Min.	Max.		
A	2.800	3.040		
В	2.100	2.640		
С	1.200	1.400		
D	0.890	1.030		
E	1.780	2.050		
F	0.450	0.600		
G	0.013	0.100		
Н	0.900	1.110		
J	0.090	0.180		
K	0.370	0.510		

Note:

- 1.Habgen free ,EMC
- 2.Pb free solder
- 3:.Lead thickness solder plating
- 4.Lead frame CAC-5
- 5.0ther Tolerance $\pm\,0.05$
- 6.Dimensions are exclusiveof Burrs Mold Flash and Tie Bar
- extrusions 7.Unit:mm



PACKAGING OF DIODE

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOT-23/-3L	-T	3,000			178	438*438*220	180,000	

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