

BAS16DW SOT-363 Plastic-Encapsulate Diodes

General description

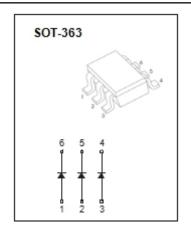
SOT-363 Plastic-Encapsulate Diodes

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

DEVICE MARKING CODE:

Device Type	Device Marking
BAS16DW	KA or KA2





Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

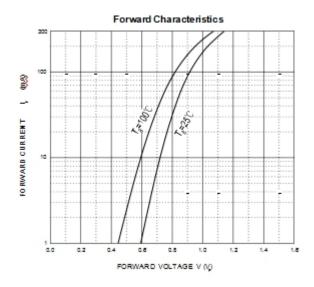
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	75	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	lo	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{ heta JA}$	625	°C/W
Operation Junction and Storage Temperature Range	T_{J} , T_{STG}	-55~+150	°C

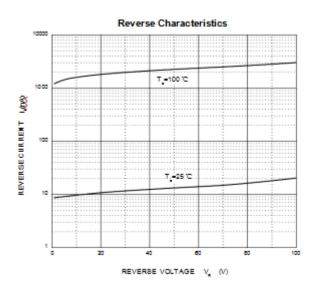
Electrical Ratings @Ta=25℃

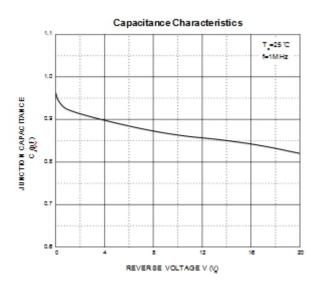
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V (BR)	75			V	I _R =10µA
	V _{F1}			0.715	V	I _F =1mA
Forward voltage	V _{F2} 0.855 V I _F =10mA	I _F =10mA				
Forward voltage	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
_	I _{R1}			1	μA	V _R =75V
Reverse current	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	Ст			2	pF	V _R =0V,f=1MHz
						I _F =I _R =10mA
Reverse recovery time	t _{rr}			4	ns	Irr=0.1XI _R ,R _L =100Ω

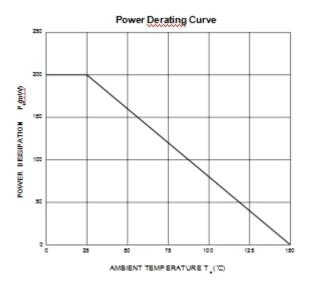


Typical Characteristics



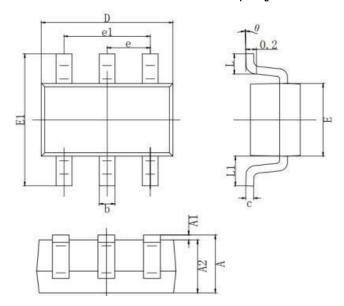








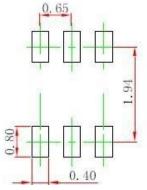
SOT-363 PACKAGE OUTLINE Plastic surface mounted package



	MILLIMETER			
SYMBOL	MIN	MAX		
A	0.900	1. 100		
A1	0.000 0.10			
A2	0.900	1.000		
b	0, 150	0.350		
c	0,080	0.150		
D	2.000	2. 200		
Е	1.150	1.350		
E1	2. 150	2.450		
e	0.650 TYP.			
e1	1. 200	1.400		
L	0. 525 REF.			
L1	0.260	0.460		
θ	0*	8*		

Precautions: PCB Design

Recommended land dimensions for SOT-363. Electrode patterns for PCBs



Note:

- 1. Controlling dimension: in millimeters.
- 2.General tolerance: ± 0.05mm.
- 3. The pad layout is for reference purposes only.



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