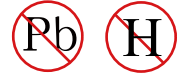




YEA SHIN TECHNOLOGY CO., LTD

BAS19W/ 20W/ 21W

SOT-323 Plastic-Encapsulate DIODE



SWITCHING DIODE

FEATURES

Power dissipation

PD: 200 mW (Tamb=25)

Collector current

IF: 200 mA

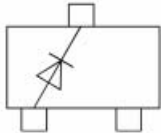
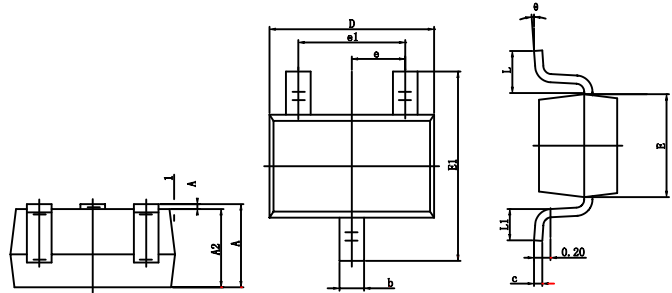
Collector-base voltage

VR: 19W: 120 V; 20W: 150V ; 21W: 200V

Operating and storage junction temperature range

TJ, Tstg: -55 to +150

SOT-323 Unit:inch(mm)



Marking: BAS19W KA8
 BAS20W KT2
 BAS21W KT3

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

High temperature soldering : 260°C / 10 seconds at terminals
 Pb free product at available : 99% Sn above meet RoHS
 environment substance directive request

ELECTRICAL CHARACTERISTICS (Tamb=25 unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	BAS19W	IR= 100μA	100		V
	BAS20W				
	BAS21W				
Reverse voltage leakage current	BAS19W	100V VR=150V 200V		0.1	μA
	BAS20W				
	BAS21W				
Forward voltage	VF	IF=100mA IF=200mA		1000 1250	mV
Diode capacitance	CD	VR=0V, f=1MHz		5	pF
Revers recovery time	trr	IF=IR=30mA Irr=0.1xIR		50	nS

DEVICE CHARACTERISTICS

BAS19W/ 20W/ 21W

