

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum reverse voltage	VR	250	V
Peak reverse voltage	VRRM	250	V
Average rectified current at temp=25 °C	lo	0.2	А
Non-repetitive peak forward surge current at t=1 μ s	IFSM	4	А

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNIT	
Power dissipation	Ртот	250	mW	
Typical thermal resistance (Note 1)	Reja	357	°C/W	
Typical thermal resistance (Note 2)	Rejc	250	°C/W	
	Rej∟	285		
Junction temperature range	TJ	150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C	

Note : 1.Mounted on a FR-4 PCB, single-sided copper, mini pad.

2. Mounted on a FR-4 PCB, single-sided copper, with 100cm² copper pad area.

BAS21S

COMMON CATHODE

BAS21C

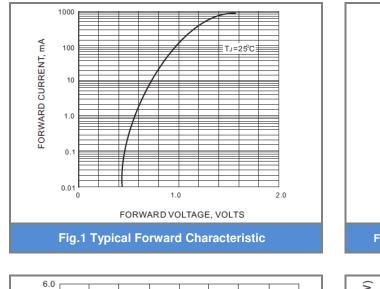
BAS21A

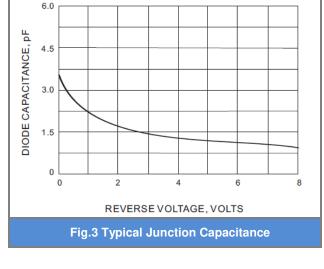




ELECTRICAL CHARACTERISTICS (T_J=25 °C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP	MAX.	UNIT
Reverse breakdown voltage	V(BR)	IR=100μA	250	-	-	V
Reverse current	lr	VR =200V	-	-	0.1	μΑ
		Vr =200V TJ=150°C	-	-	100	
Forward voltage	VF	l⊧=1mA	-	-	0.7	v
		l⊧=100mA	-	-	1	
Maximum junction capacitance	CJ	V _R =0V,f=1MHz	-	-	5	pF
Reverse recovery time	Trr	IF = IR=30mA	-	-	50	ns
		R _L =100Ω				





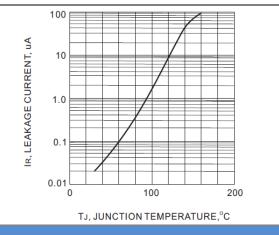
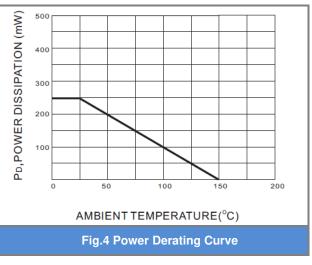


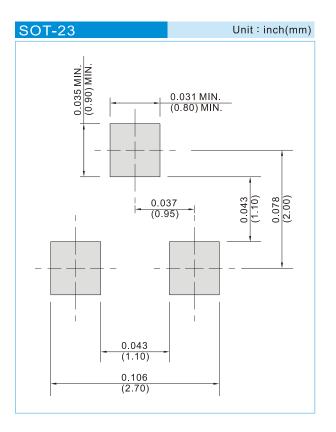
Fig.2 Leakage Current VS. Junction Temperature







MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information
T/R – 12K per 13" plastic Reel
T/R – 3K per 7" plastic Reel



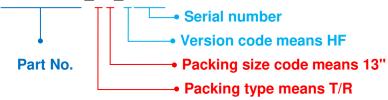


Part No_packing code_Version

BAS21A_R1_00001 BAS21A_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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