

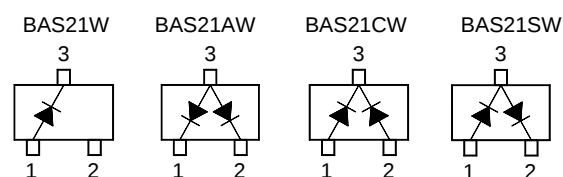
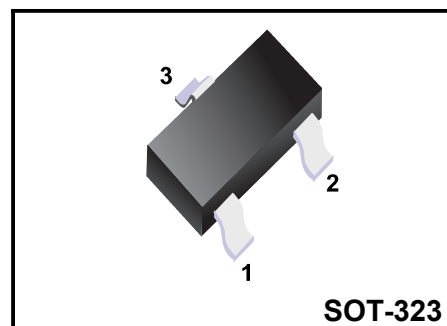
Plastic-Encapsulate Switching Diode

Features

- ♦Fast Switching Device (TRR <50 nS)
- ♦Power Dissipation of 200mW
- ♦High Stability and High Reliability
- ♦Low reverse leakage

Mechanical Data

- ♦SOT-323 Small Outline Plastic Package
- ♦Epoxy UL: 94V-0
- ♦Mounting Position: Any



Marking Code

BAS21W	KT3
BAS21AW	F2
BAS21CW	F3
BAS21SW	F4

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

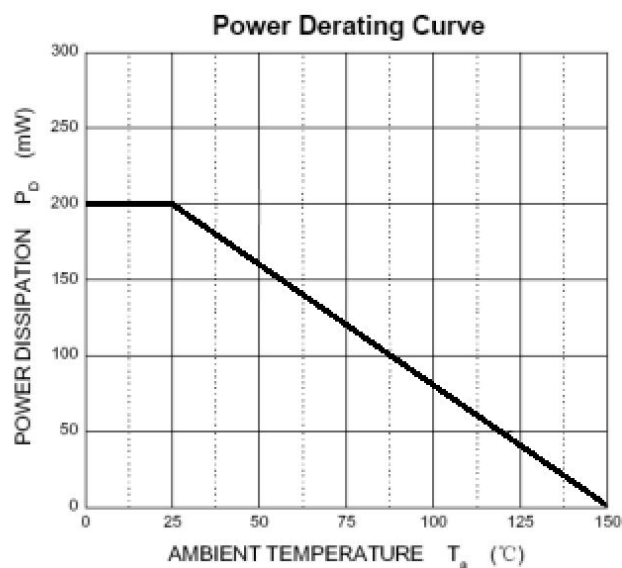
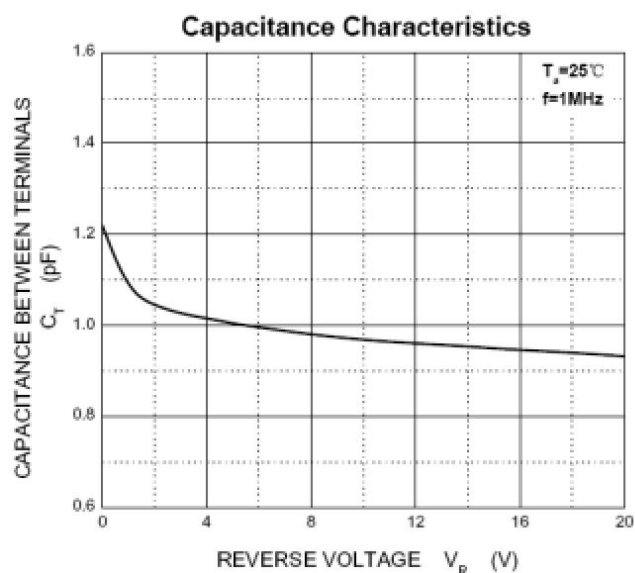
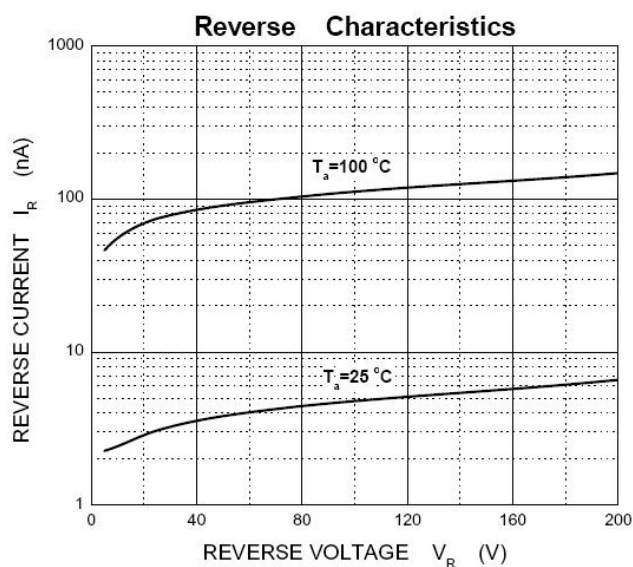
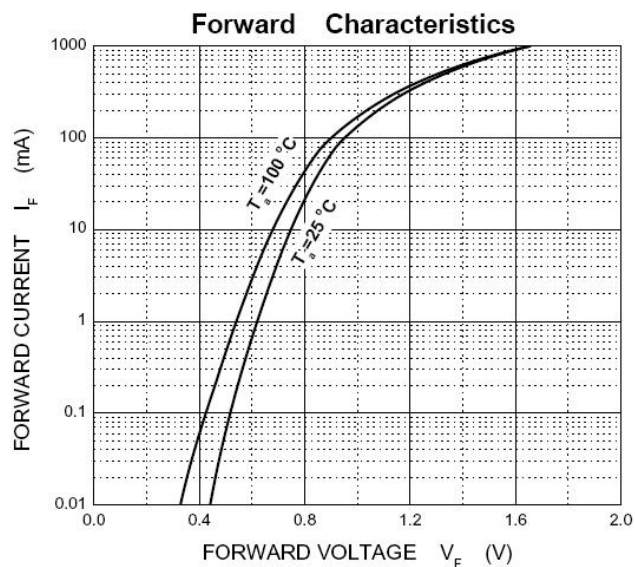
Parameters	Symbol	Value	Units
Reverse Voltage	V_R	250	V
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Power Dissipation	P_D	200	mW
Forward continuous Current	I_{FM}	200	mA
Repetitive peak forward surge current	I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms, T _A =25°C	I_{FSM}	2.5	A
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C
Thermal resistance From junction to ambient	$R_{\theta JA}$	625	°C/W

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbols	Test Condition	Limits		Units
			Min	Max	
Collector-base breakdown voltage	$V_{(BR)}$	IR=100uA	250	-	V
Reverse Voltage Leakage Current	I_R	VR=200V	-	0.1	uA
Forward Voltage	V_F	IF=100mA IF=200mA	-	1.0 1.25	V
Reverse Recovery Time	T_{RR}	IF= IR=30mA IRR=0.1 X IR	-	50	nS
Capacitance	C_T	VR=0V, f=1MHZ	-	5	pF

Typical Characteristics



Ordering information

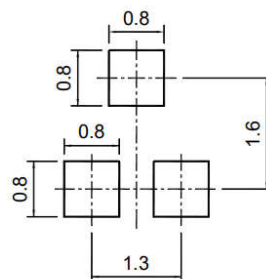
Package	Packing Description	Base Quantity	Packing Quantity
SOT-323	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-323

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	0.1		4	
bp	0.3	0.4	12	16
C	0.10	0.25	4	10
D	1.8	2.2	71	87
E	1.15	1.35	45	53
E	1.3		51	
E1	0.65		26	
HE	2.0	2.2	79	87
Lp	0.15	0.45	6	18
Q	0.13	0.23	5.1	9
v	0.2		8	
W	0.2		8	

The recommended mounting pad size



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