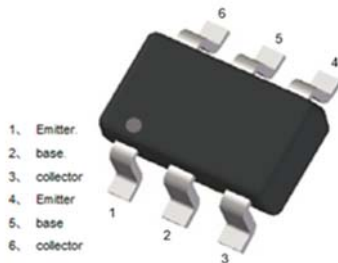
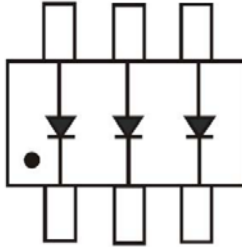


Switching Diodes



Features

- Moisture sensitivity level 1
- Reverse voltage: 250V
- Average forward current : 200mA

Application

- Signal switching
- High frequency rectifier

Mechanical data

- **Package:** SOT-363S
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			XJK
Repetitive peak reverse voltage	V_{RRM}	V	250
Forward current	I_F	mA	200
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave	I_{FSM}	A	1.7
Non-repetitive surge peak forward current @ t=1ms square wave			2.5
Power dissipation	P_D	mW	200
Junction temperature	T_J	$^\circ\text{C}$	-55 to +150
Storage temperature	T_{STG}	$^\circ\text{C}$	-55 to +150



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■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Reverse voltage	V _R	V	I _R =100uA	250		
Forward voltage	V _{F1}	V	I _F =100mA			1.05
	V _{F2}	V	I _F =200mA			1.25
Reverse leakage current	I _R	nA	V _R =200V			100
Junction capacitance	C _j	pF	V _R =0V, f=1MHz			5
Reverse recovery time	T _{rr}	ns	I _F =I _R =30mA, I _{rr} =1mA			50

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	625
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	500

Note:

(1) Device mounted on PCB, single-sided copper, with standard footprint



■ Characteristics

Fig 1: P_D - T_a Curve

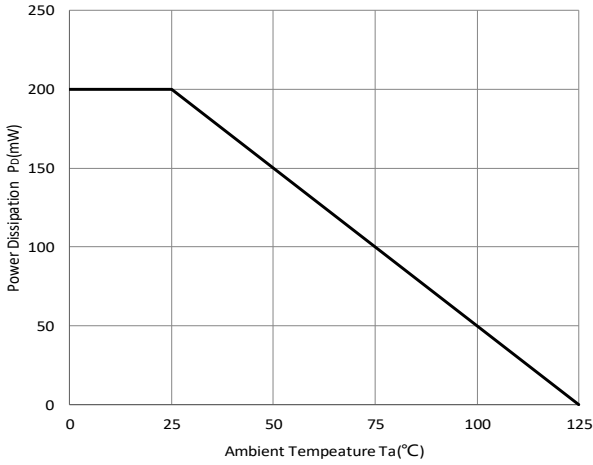


Fig 2: Capacitance Capability

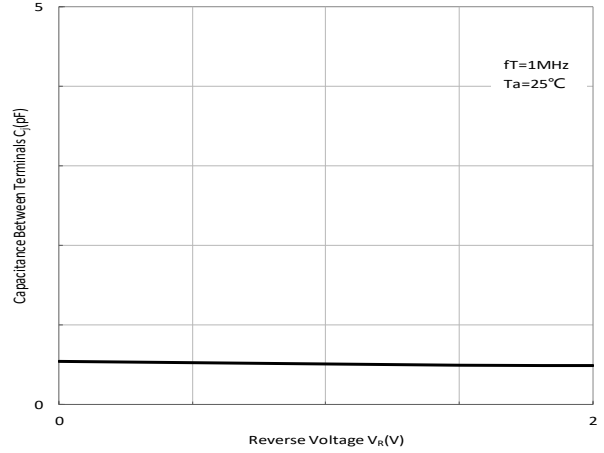


Fig 3: Typical Forward Characteristics

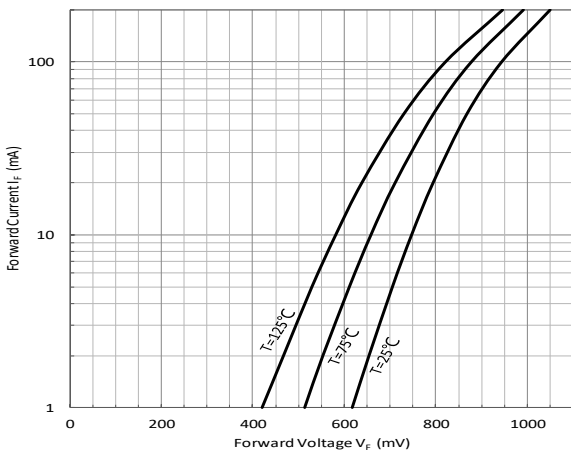
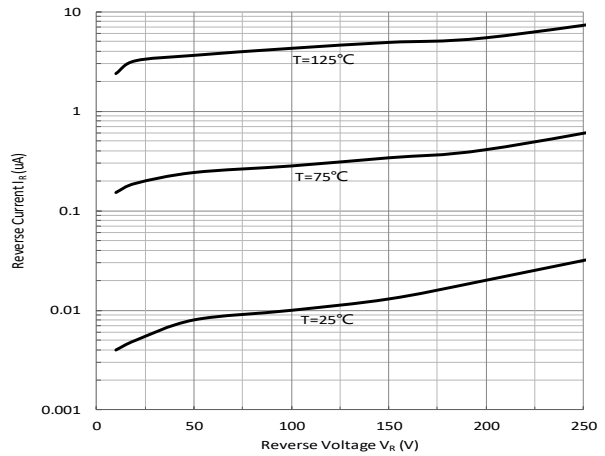


Fig 4: Typical Reverse Characteristics

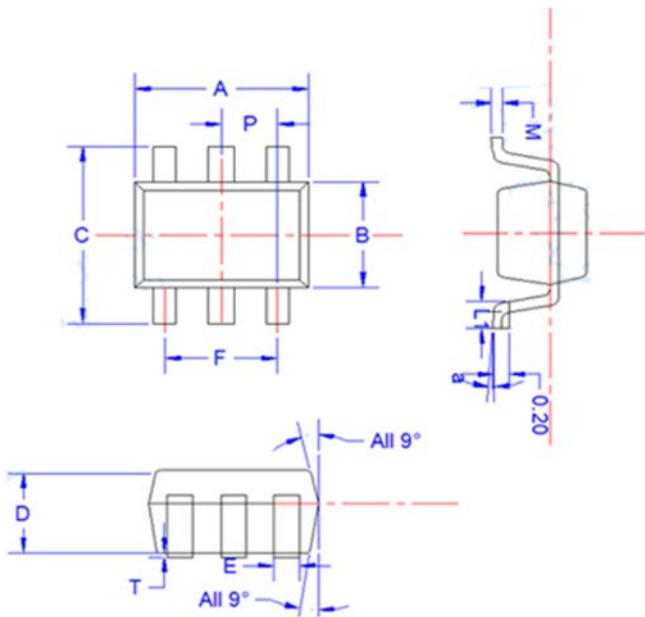




■ Ordering Information

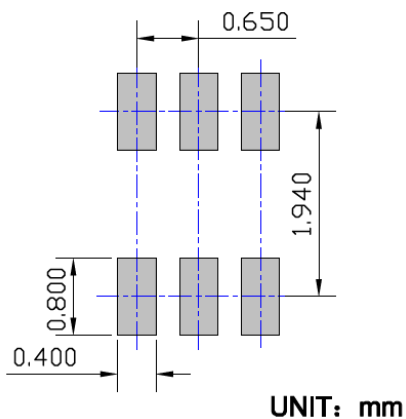
Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	delivery mode
BAS21TWS	F2	Approximate 0.009	3000	30000	120000	7" reel
BAS21TWS	F3	Approximate 0.009	10000	/	210000	7" reel

■ Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
E	0.15	0.25	0.35
B	1.15	1.25	1.35
C	2.00	2.10	2.20
P	0.650BSC		
A	1.80	2.00	2.20
T	0.00	0.05	0.100
D	0.90	0.95	1.00
L1	0.20	0.30	0.40
a	4°±4°		
M	0.10	0.15	0.25

■ Suggested Pad Layout





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