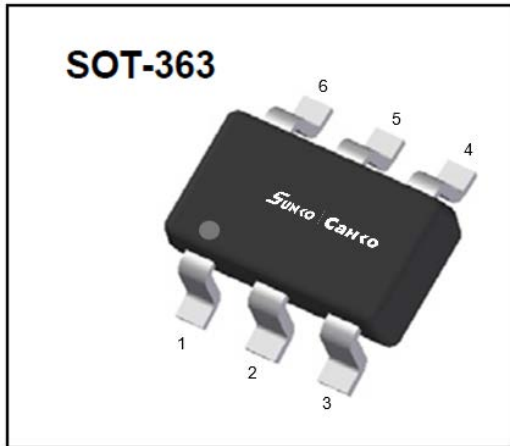


Switching Diodes



Features

- We declare that the material of product compliance with requirements and Halogen Free
- Surface mount package ideally suited for automatic Insertion
- Moisture Sensitivity Level 1
- Reverse voltage: 250 V
- Average forward current : 200mA

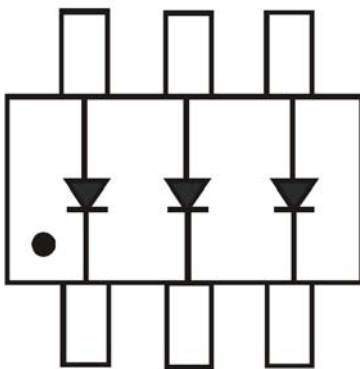
Application

- Fast switching
- Low leakage current
- Low junction capacitance

Mechanical Data

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

■Equivalent circuit



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■ Maximum Ratings (Ta=25°C Unless otherwise specified)

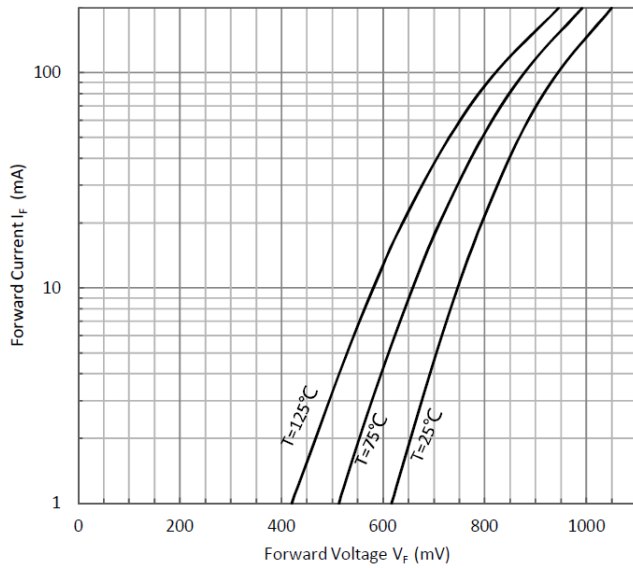
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		250
Reverse voltage	V_R	V		250
Average forward current	I_{FAV}	mA		200
Non-repetitive peak forward surge current	I_{FSM}	A	8.3ms half-sine wave	1.7
Power dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C/W		625
Maximum junction temperature	T_j	°C		-55 ~+150
Storage temperature range	T_{sig}	°C		-55 ~+150

■ Electrical Characteristics (Ta=25°C unless otherwise specified)

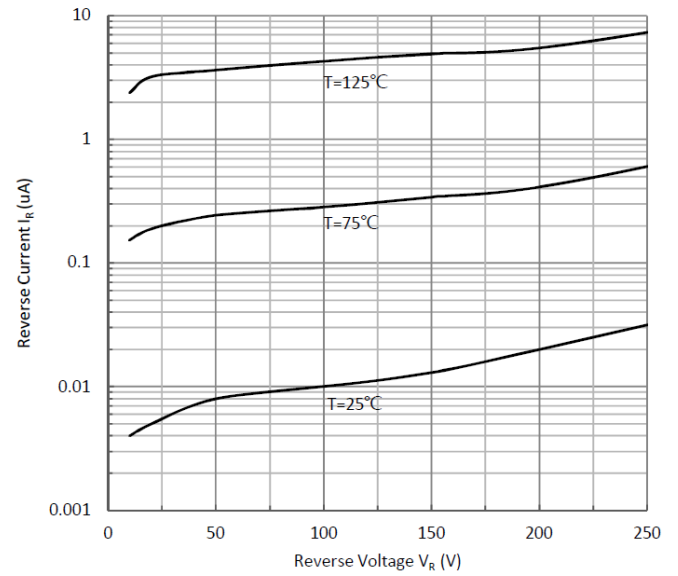
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=100\mu A$	250	
Forward Voltage	V_F	V	$I_F=100mA$		1.05
			$I_F=200mA$		1.25
Reverse Leakage Current	I_R	nA	$V_R=200V$		100
Capacitance	C_j	pF	$V_R=0V, f=1MHz$		5
Reverse Recovery Time	T_{RR}	ns	$I_F=I_R=30mA, I_{rr}=1mA$		50

■ Electrical Characteristics (Typical)

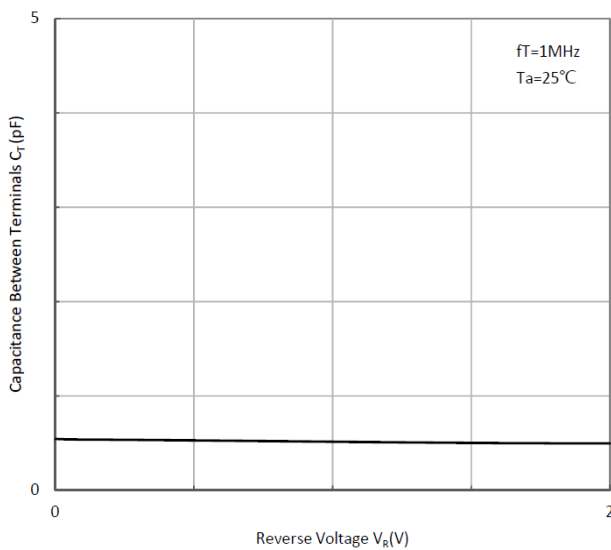
Forward Characteristics



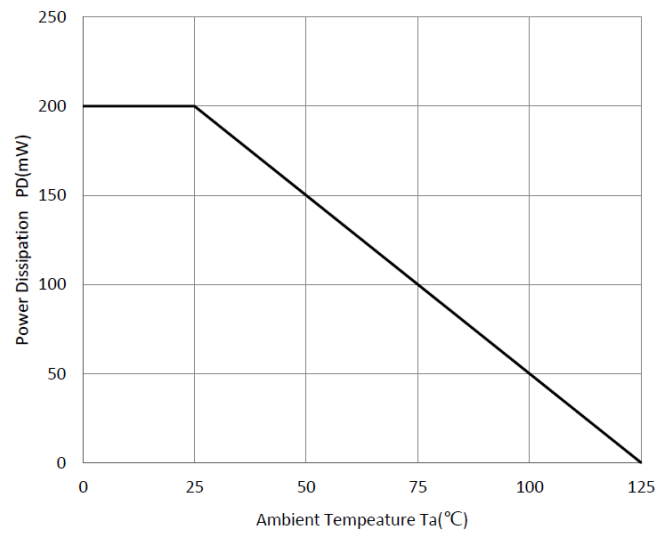
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

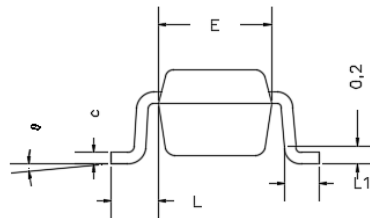
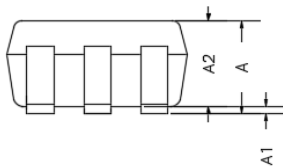
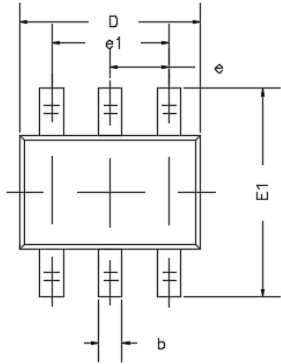


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■ Ordering Information (Example)

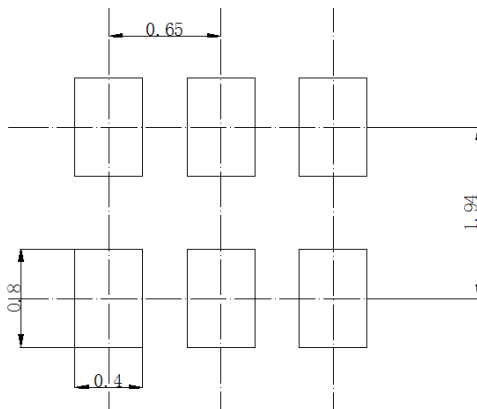
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS21TW	F2	Approximate 0.009g	3000	30000	120000	7" reel

■SOT-363 Package Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.035	0.043	0.900	1.100
A1	0.000	0.004	0.000	0.100
A2	0.035	0.039	0.900	1.000
b	0.006	0.014	0.150	0.350
c	0.002	0.010	0.050	0.250
D	0.071	0.087	1.800	2.200
E	0.045	0.053	1.150	1.350
E1	0.085	0.096	2.150	2.450
e	0.026TYP		0.65TYP	
e1	0.047	0.055	1.200	1.400
L	0.021TYP		0.525TYP	
L1	0.010	0.018	0.260	0.460
θ	0°	8°	0°	8°

■SOT-363 Soldering Footprint



Unit: mm

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Russiansunco or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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