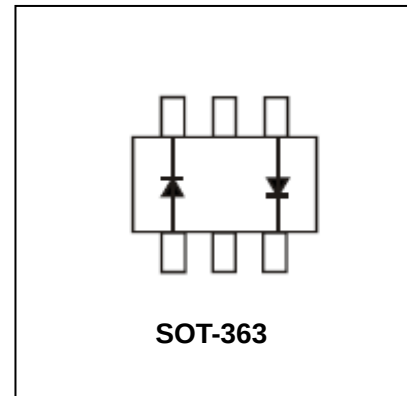


Surface Mount Fast Switching Diodes

BAS21DW

FEATURES

- Fast switching speed.
- Surface Mount Package Ideally Suited for Automated Insertion.
- High Reverse Breakdown Voltage.
- Low Leakage Current.



APPLICATIONS

- For general purpose switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS21DW	KT3	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V_{RRM}	Repetitive peak reverse voltage	250	V
V_{RWM}	Working peak reverse voltage	200	V
V_R	DC Blocking voltage	200	V
$V_{R(RMS)}$	RMS Reverse voltage	141	V
I_{FM}	Forward continuous current	400	mA
I_{FSM}	Non-repetitive peak forward surge current @t=1.0μs @t=1.0s	2.5 0.5	A
I_{FRM}	Repetitive Peak Forward Surge Current	625	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient Air	625	°C/W
T_j, T_{stg}	Junction and Storage Temperature	-65 to +150	°C

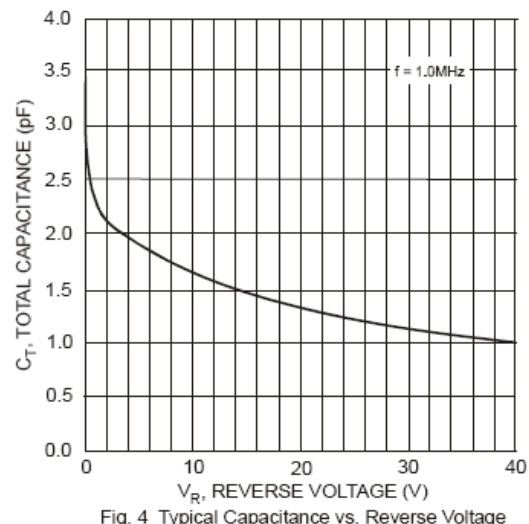
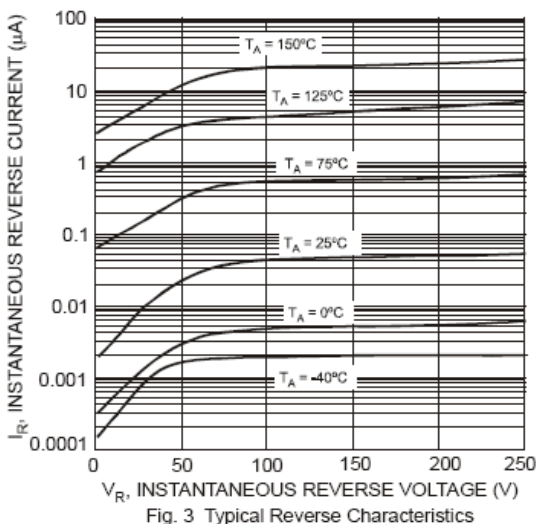
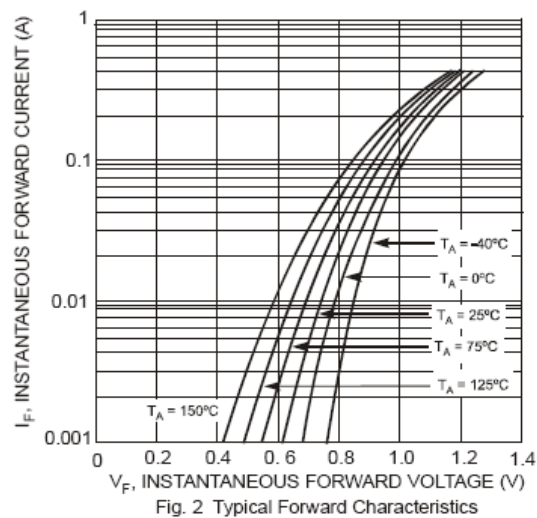
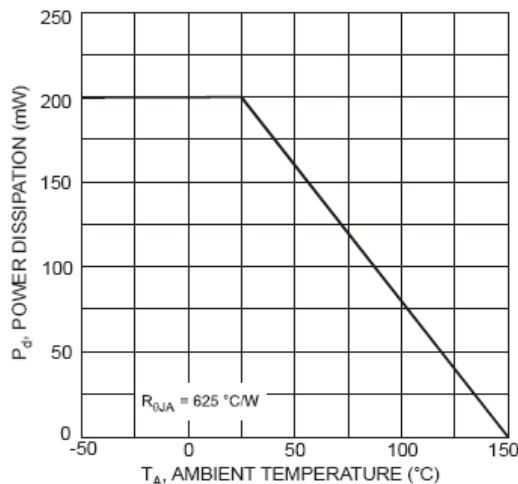
Surface Mount Fast Switching Diodes

BAS21DW

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	250	-	V
Forward voltage	V_F	$I_F=100\text{mA}$ $I_F=200\text{mA}$	-	1.0 1.25	V
Peak Reverse Current	I_R	$V_R=200\text{V}, T_j=25^\circ\text{C}$ $V_R=200\text{V}, T_j=100^\circ\text{C}$	-	100 15	nA uA
Total Capacitance	C_T	$V_R=0\text{V}, f=1.0\text{MHz}$	-	5.0	pF
Reverse Recovery time	t_{rr}	$I_F=I_R=30\text{mA}, I_{rr}=0.1 \cdot I_R$, $R_L=100\Omega$	-	50	ns

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



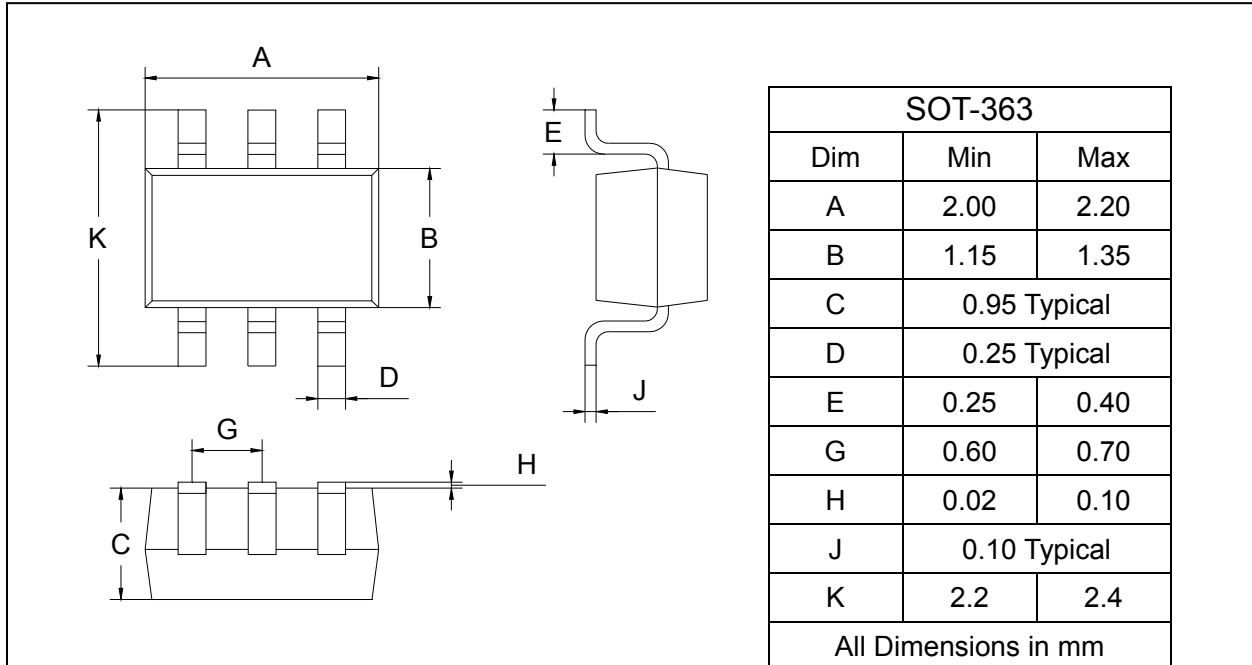
Surface Mount Fast Switching Diodes

BAS21DW

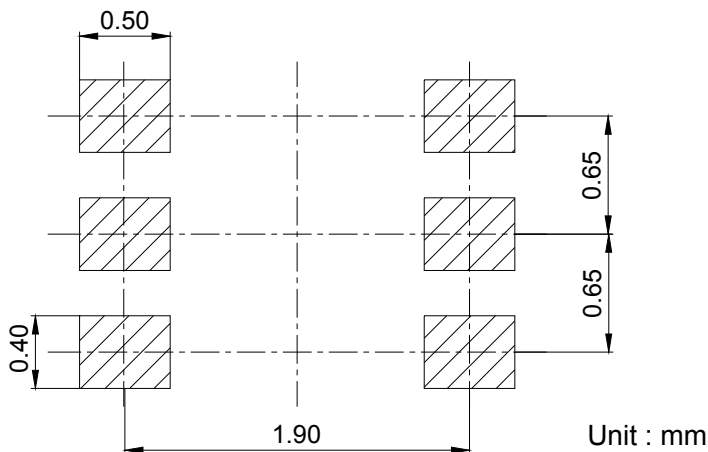
PACKAGE OUTLINE

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAS21DW	SOT-363	3000/Tape&Reel