

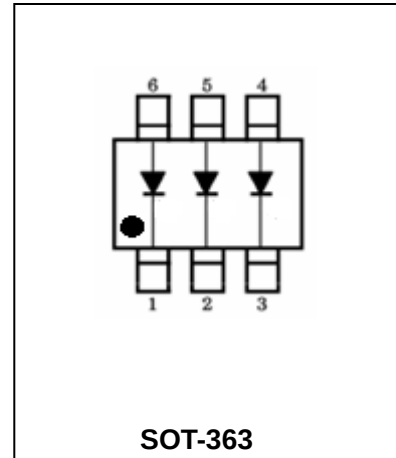
Surface Mount Fast Switching Diodes

TBAS21TW

FEATURES

- Fast Switching Speed: max. 50ns
- Continuous Reverse Voltage: max. 200V
- Repetitive Peak Reverse Voltage: max. 250V
- Repetitive Peak Forward Current: max. 1A
- Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Halogen free
- Qualified to AEC-Q101 standards for high reliability

HF



APPLICATIONS

- For general purpose switching application

ORDERING INFORMATION

Type No.	Marking	Package Code
TBAS21TW	XJK	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	250	V
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	250	V
$V_{R(RMS)}$	RMS Reverse Voltage	177	V
I_{FM}	Forward continuous current	200	mA
I_{FSM}	Non-repetitive peak forward surge current @t=50μs @t=100μs @t=10ms	10 8 2	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient Air	417	°C/W
T_J, T_{STG}	Junction and Storage Temperature	-65 to +150	°C

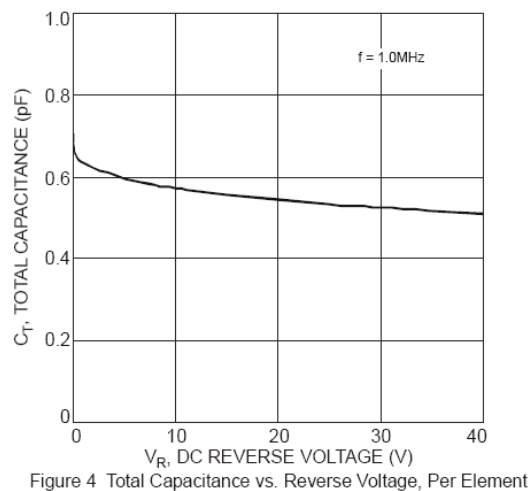
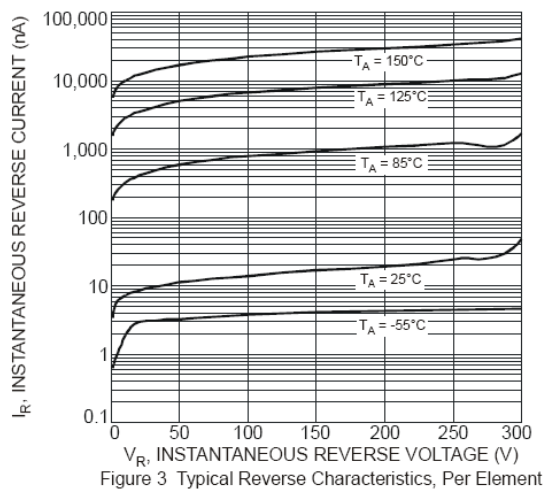
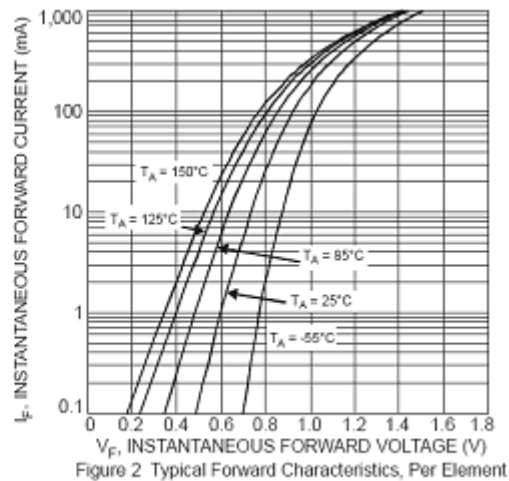
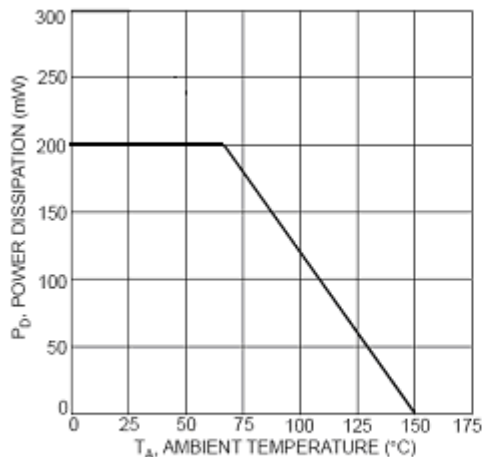
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ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

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	$I_F=100\text{mA}$ $I_F=200\text{mA}$	-	1.05 1.25	V
Peak Reverse Current	I_R	$V_R=200\text{V}$ $V_R=200\text{V}, T_j=150^\circ\text{C}$	-	100 100	nA μA
Total Capacitance	C_T	$V_R=6\text{V}, f=1.0\text{MHz}$	-	5.0	pF
Reverse Recovery time	t_{rr}	$I_F=5\text{mA}, V_R=6\text{V},$	-	50	ns

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



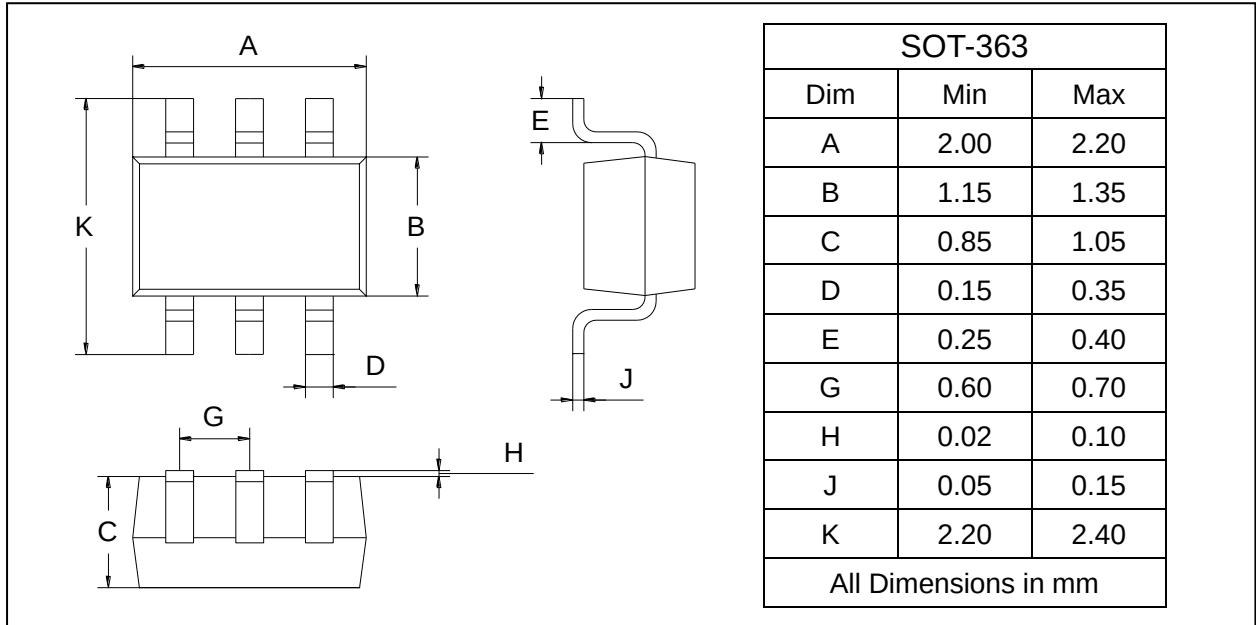
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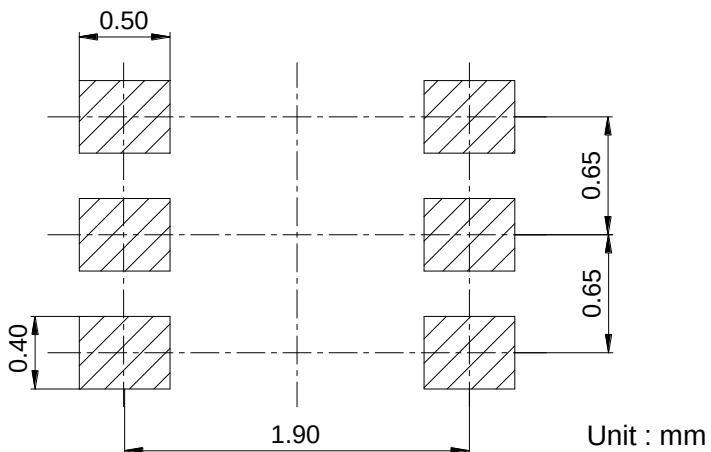
PACKAGE OUTLINE

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
TBAS21TW	SOT-363	3000 pcs / Tape & Reel