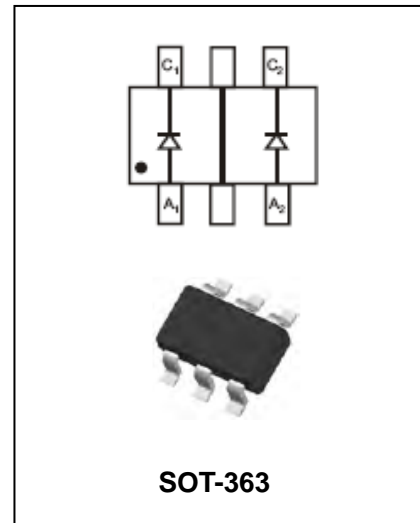


Surface mount schottky barrier diode

BAS70JW

FEATURES

- Low Forward Voltage Drop.
- Fast switching.
- PN Junction guard ring for transient and ESD protection.
- Ultra-small surface mount package.
- Also available in lead free version.



APPLICATIONS

- High speed switching applications.
- Circuit protecting.
- Voltage clamping.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS70JW	K78	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Working Peak Reverse Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
RMS Reverse voltage	$V_{R(RMS)}$	49	V
Forward Continuous Current	I_F	70	mA
Non-Repetitive Peak Forward Surge Current @ $t_p < 1.0s$	I_{FSM}	100	mA
Power Dissipation	P_d	200	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating Junction Temperature Range	T_j	-55 to +125	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C



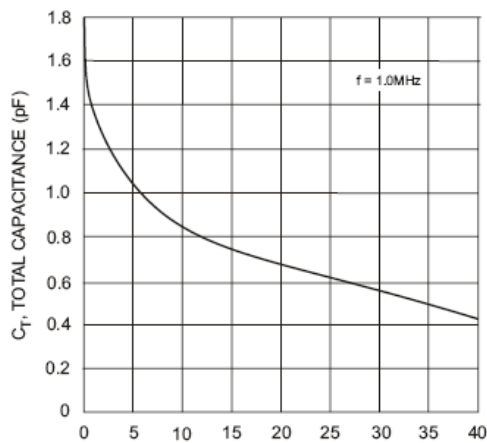
Surface mount schottky barrier diode

BAS70JW

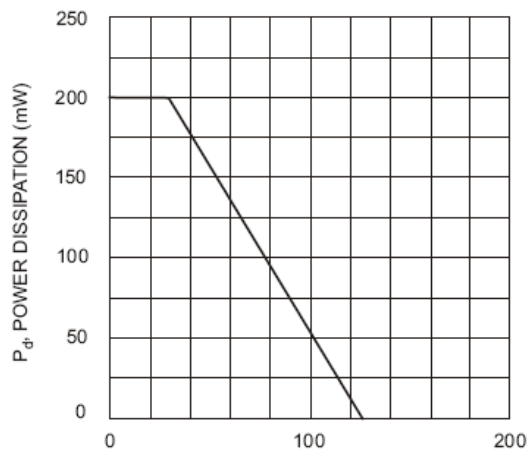
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Forward Voltage	V_F	-	410 1000	mV	$t_P < 300\mu s, I_F = 1.0mA$ $t_P < 300\mu s, I_F = 15mA$
Reverse Leakage Current	I_R	-	100	nA	$t_P < 300\mu s, V_R = 50V$
Total Capacitance	C_T	-	2.0	pF	$V_R = 0V, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	-	5.0	ns	$I_F = I_R = 10mA$ to $I_R = 1.0mA$, $I_{rr} = 0.1 \times I_R, R_L = 100$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



V_R , REVERSE VOLTAGE (V)
Fig. 3 Typical Capacitance



T_A , AMBIENT TEMPERATURE (°C)
Fig. 4 Power Derating Curve, Total Package

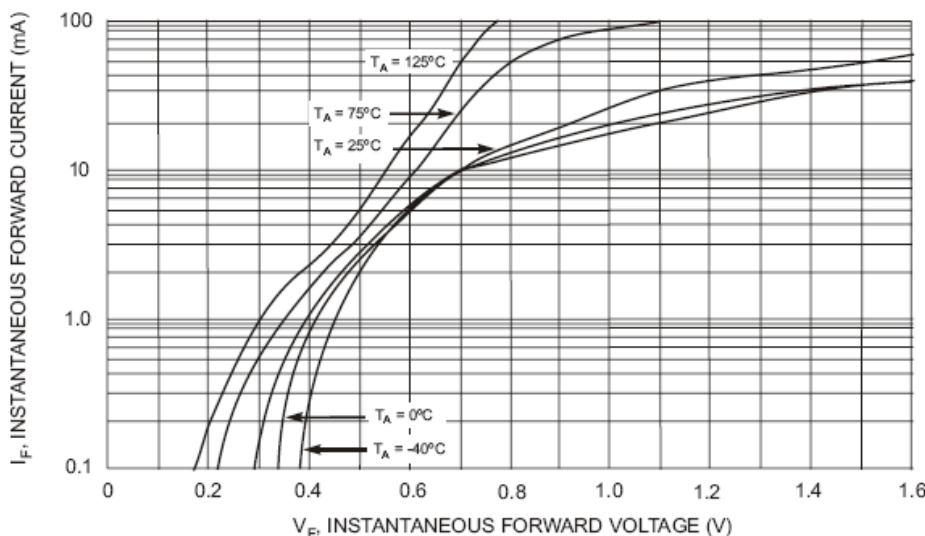
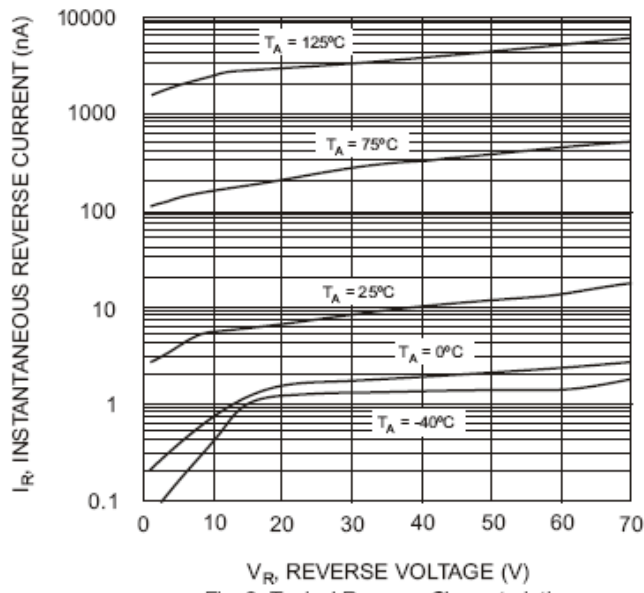


Fig. 1 Typical Forward Characteristics

Surface mount schottky barrier diode

BAS70JW



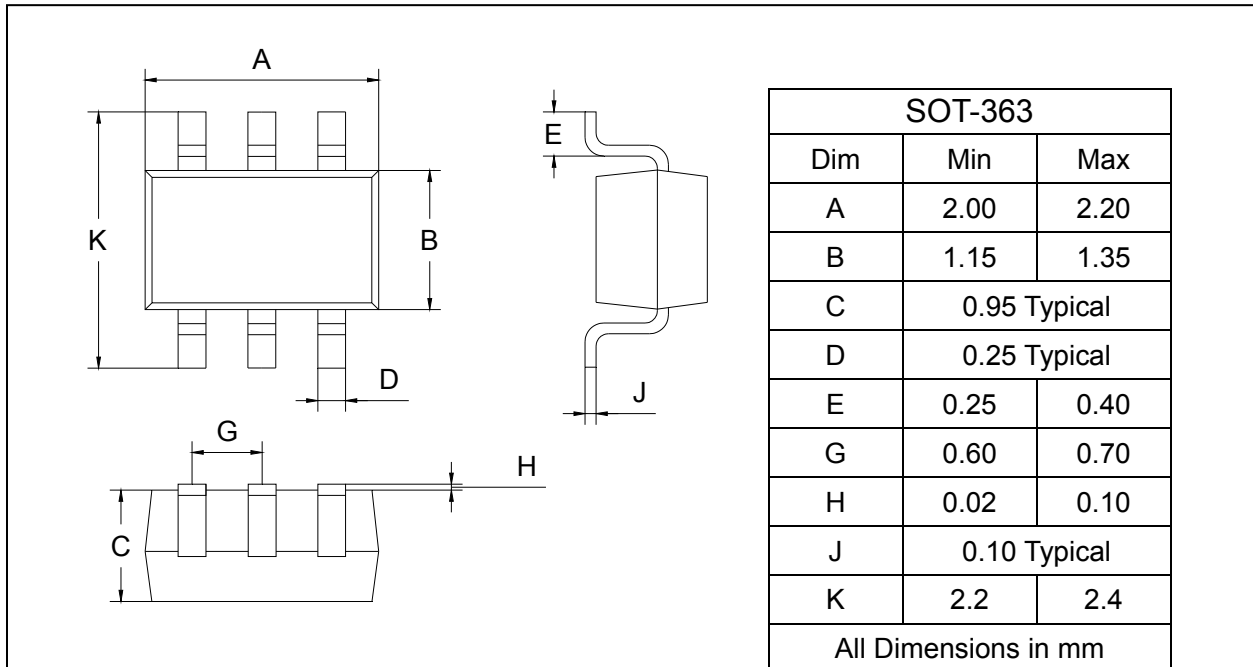
Surface mount schottky barrier diode

BAS70JW

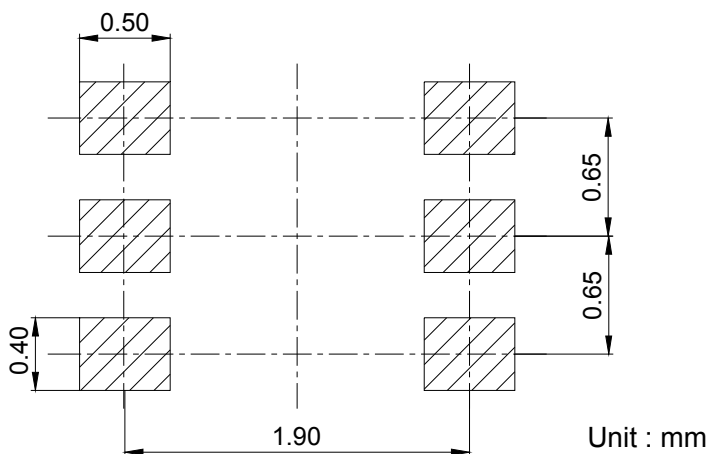
PACKAGE OUTLINE

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAS70JW	SOT-363	3000/Tape&Reel