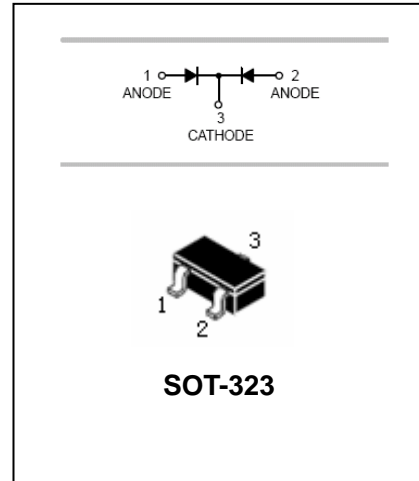


### FEATURES

- Fast switching speed.
- High conductance.
- Common cathode.
- For general purpose switching applications.
- Surface mount package ideally suited for automatic insertion.



Lead-free



### APPLICATIONS

- Small signal switching

### ORDERING INFORMATION

Type No.	Marking	Package Code
BAV70W	KJA	SOT-323

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	70	V
Diode reverse voltage	$V_R$	70	V
Forward continuous Current	$I_F$	200	mA
Forward Surge Current $t=1\mu S$	$I_{FS}$	4.5	A
Power Dissipation	$P_d$	250	mW
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-65-+150	°C

# Diode Semiconductor Korea

Dual surface mount switching diode

**BAV70W**

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 100\mu A$	70		V
Reverse voltage leakage current	$I_R$	$V_R = 70V$		2.5	$\mu A$
Forward voltage	$V_F$	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$		715 855 1000 1250	mV
Diode capacitance	$C_D$	$V_R = 0V$ $f = 1MHz$		1.5	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10mA$ $I_R = 1mA$ $R_L = 100\Omega$		6	nS

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

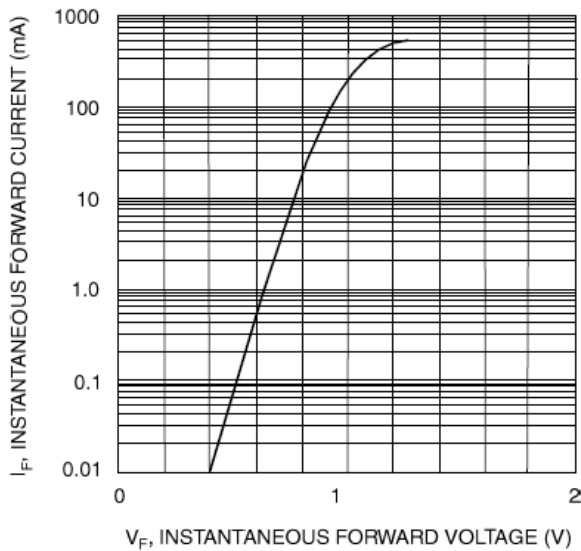


Fig. 1 Forward Characteristics

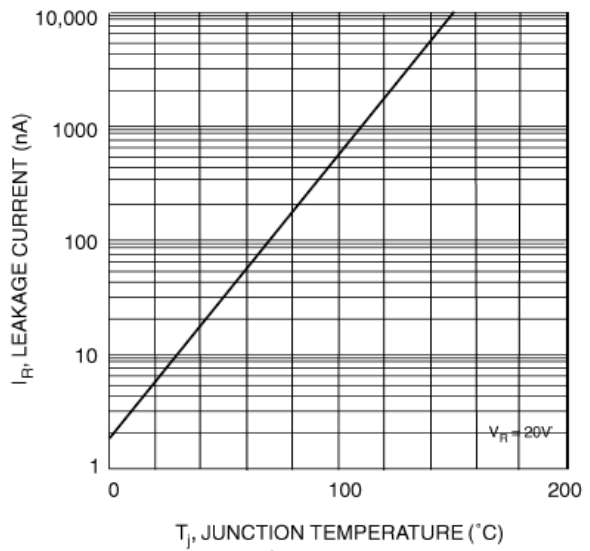


Fig. 2 Leakage Current vs Junction Temperature

# Diode Semiconductor Korea

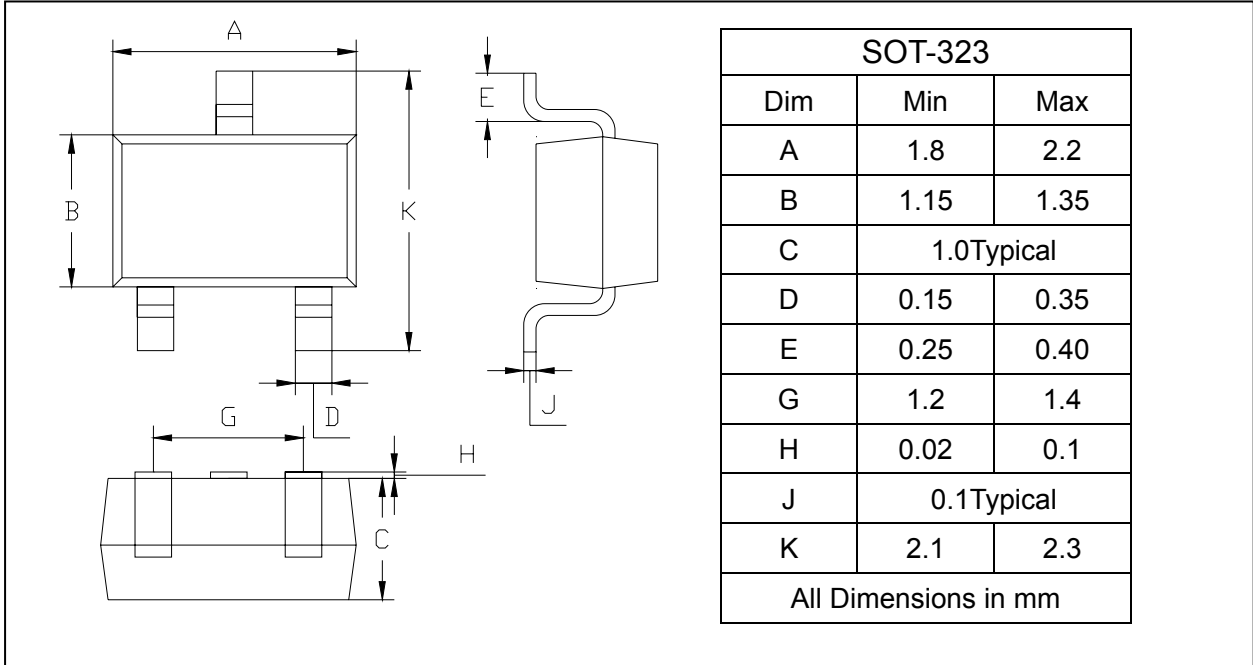
Dual surface mount switching diode

**BAV70W**

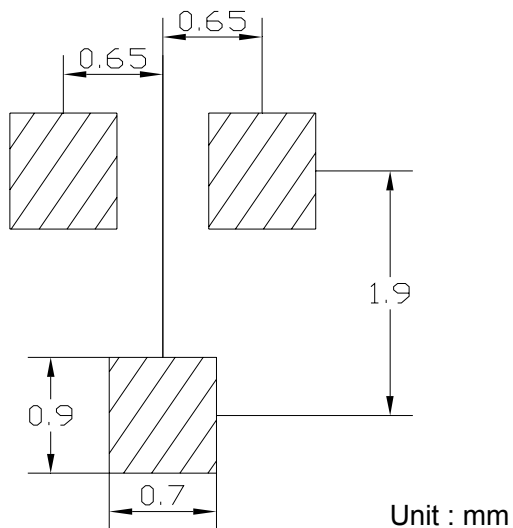
## PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



## SOLDERING FOOTPRINT



## PACKAGE INFORMATION

Device	Package	Shipping
BAV70W	SOT-323	3000/Tape&Reel