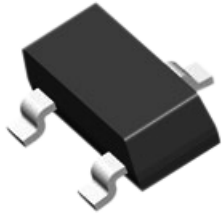
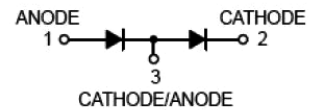


# Dual Series Switching Diode



## Features:

- Fast Switching Speed
- High Conductance
- Connected In Series
- Surface Mount Package Ideally Suited for Automatic Insertion



**SOT-323**

## Applications:

For general purpose switching application

## Max. Rating @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
Non repetitive peak reverse voltage	$V_{RM}$	100	V
Repetitive peak reverse voltage	$V_{RRM}$	75	V
Working peak reverse voltage	$V_{RMS}$		
DC reverse voltage	$V_R$		
Peak forward surge current	$I_{FSM}$	1 2	A
Forward continuous current	$I_{FM}$	300	mA
Average rectified output current	$I_O$	150	mA
Power dissipation	$P_D$	200	mW
Junction and storage temperature	$T_j, T_{STG}$	-65 to +150	$^\circ\text{C}$

## Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse voltage leakage current	$I_R$	$V_R = 75\text{V}$ $V_R = 20\text{V}$	-	2.5 25	A nA
Forward voltage	$V_F$	$I_F = 1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 50\text{mA}$ $I_F = 150\text{mA}$	-	715 855 1,000 1,250	mV
Junction capacitance	$C_J$	$V_R = 0\text{V}, f = 1\text{MHz}$	-	2	V
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10\text{mA},$ $V_R = 5\text{V}, R_C = 100\Omega$	-	4	ns

# Dual Series Switching Diode

Typical Characteristics @  $T_A = 25^\circ\text{C}$  unless otherwise specified

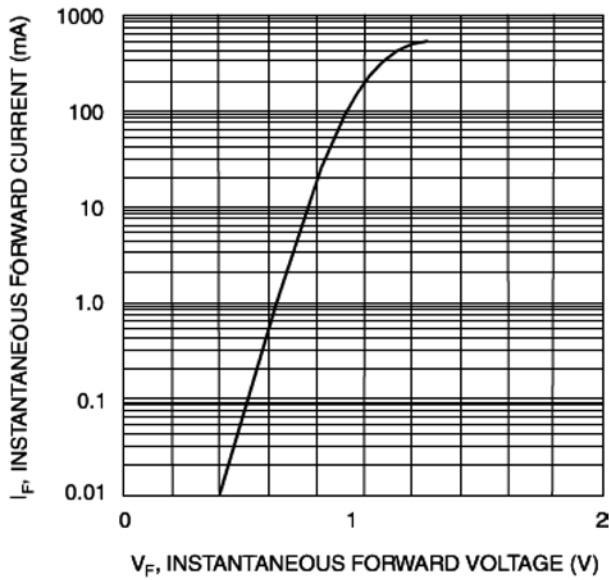


Fig. 1 Forward Characteristics

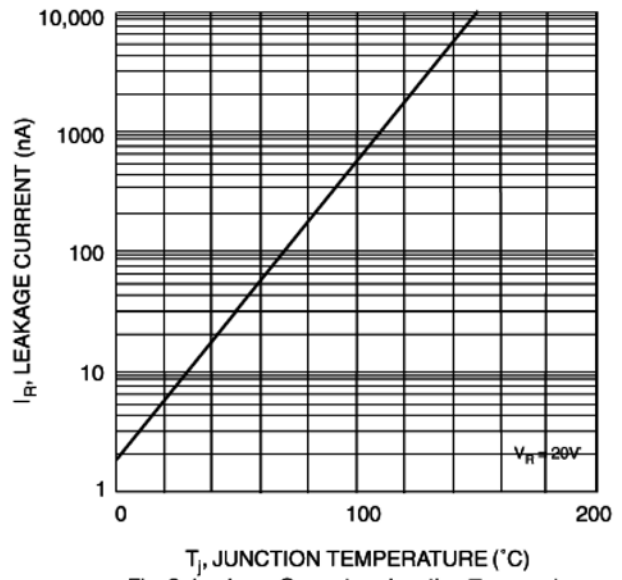
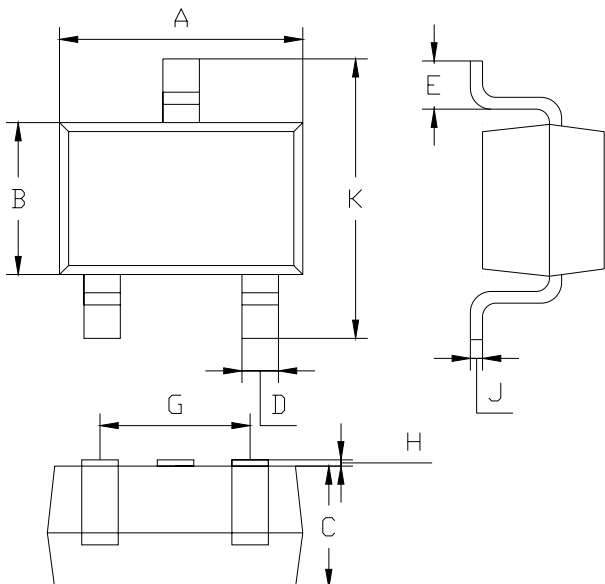


Fig. 2 Leakage Current vs Junction Temperature

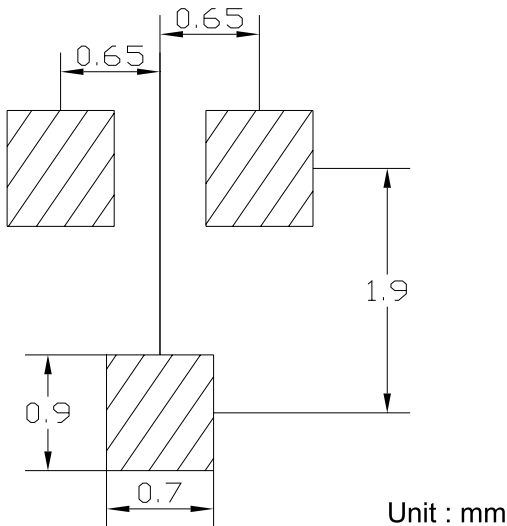
## Plastic surface mounted package



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1 Typical	
D	0.15	0.35
E	0.25	0.4
G	1.2	1.4
H	0.02	0.1
J	0.1 Typical	
K	2.1	2.3
All Dimensions in mm		

# Dual Series Switching Diode

## Soldering Footprint



## Package Information

Device	Package	Shipping
BAV99W-7-F	SOT-323	3,000 / Tape & Reel

## Part Number Table

Description	Part Number
Dual series switching diode	BAV99W-7-F

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.