



# BAV316

## 250mW Switching Diodes 130 Volts

### Features

- Halogen free available upon request by adding suffix "-HF"
- Very Small Plastic Package
- High Switching Speed
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: XX

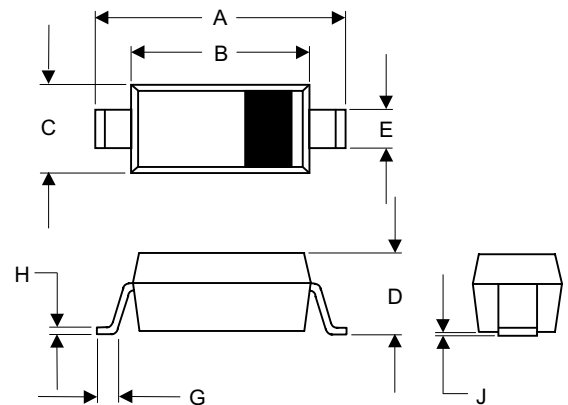
### Maximum Ratings

Symbol	Parameter	Value	Unit
$V_{RRM}$	Peak Repetitive Reverse Voltage	130	V
$V_R$	DC Blocking Voltage	130	
$I_O$	Continuous Forward Current	215	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2.0	A
$P_D$	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	°C/W
$T_j$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55~+150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

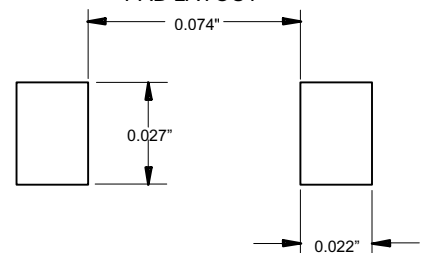
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	130			V	$I_R=100\mu A$
Forward voltage	$V_{F1}$			0.85	V	$I_F=1mA$
	$V_{F2}$			0.95	V	$I_F=10mA$
	$V_{F3}$			1	V	$I_F=50mA$
	$V_{F4}$			1.1	V	$I_F=150mA$
Reverse current	$I_R$			5	nA	$V_R=75V$
Diode capacitance	$C_{tot}$		2		pF	$V_R=0V, f=1MHz$
Reverse recovery time	$t_{rr}$			3	$\mu s$	$I_F=I_R=10mA$ , $I_{tr}=0.1 \times I_R, R_L=100\Omega$

### SOD-323

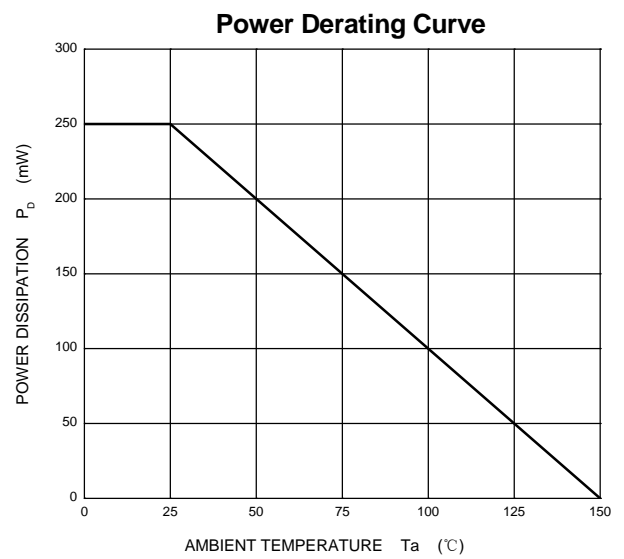
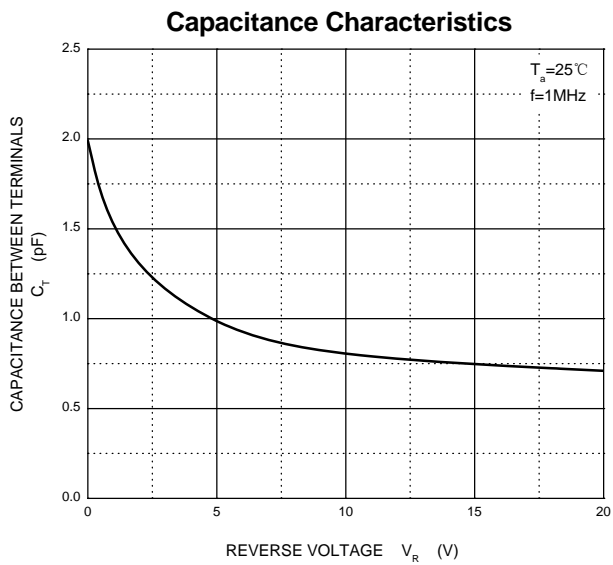
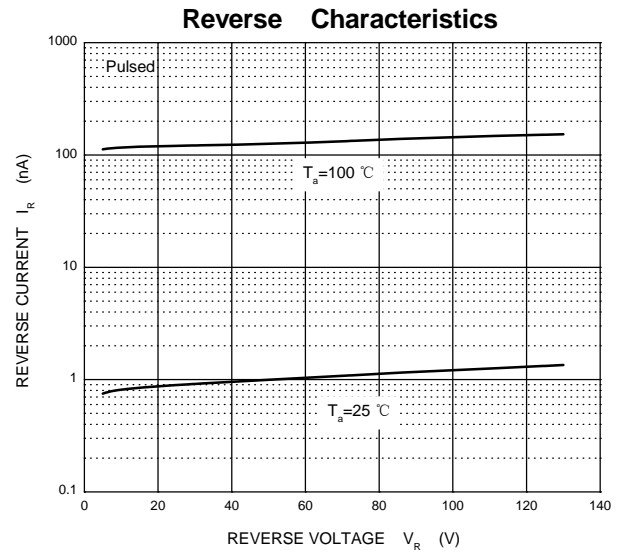
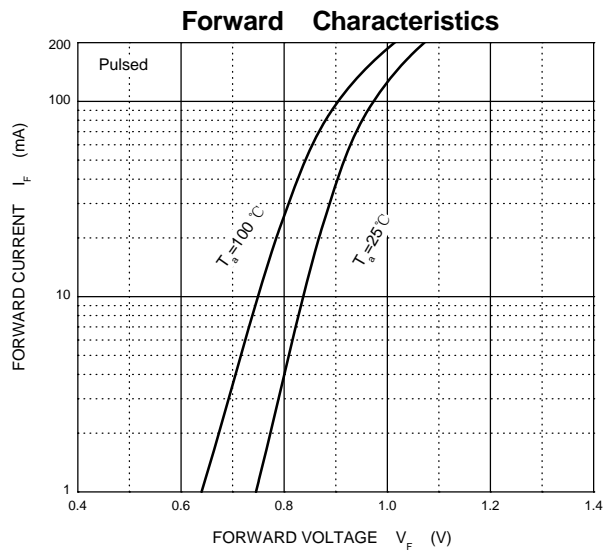


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

### SUGGESTED SOLDER PAD LAYOUT



## Typical Characteristics



## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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