

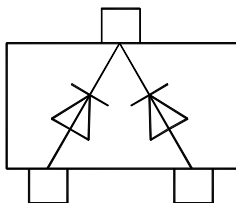


## BAV70M

### Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- High conductance
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast switching speed

Marking : A4



### Maximum Ratings

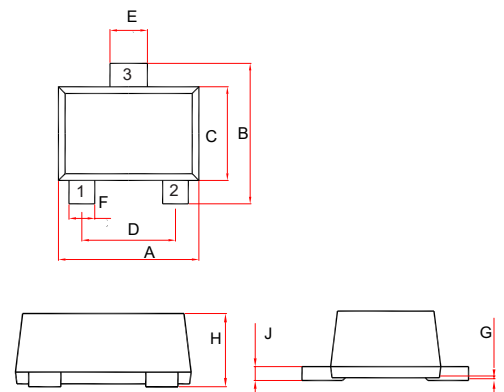
- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

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

|                                                         |                 |                                  |                                                                                                    |
|---------------------------------------------------------|-----------------|----------------------------------|----------------------------------------------------------------------------------------------------|
| Non-Repetitive Peak reverse voltage                     | $V_{RM}$        | 100V                             |                                                                                                    |
| Peak Repetitive Reverse Voltage                         | $V_{RRM}$       | 75V                              |                                                                                                    |
| Working Peak Reverse Voltage                            | $V_{RWM}$       |                                  |                                                                                                    |
| DC Reverse Voltage                                      | $V_R$           |                                  |                                                                                                    |
| Average rectified output current                        | $I_O$           | 200mA                            |                                                                                                    |
| Non-Repetitive Peak Forward Surge Current               | $I_{FSM}$       | 2A<br>1A                         | @1us<br>@1s                                                                                        |
| Repetitive Peak Forward Current                         | $I_{FRM}$       | 450mA                            |                                                                                                    |
| Power Dissipation                                       | $P_D$           | 150mW                            |                                                                                                    |
| Thermal Resistance, Junction to Ambient Air             | $R_{\theta JA}$ | 357°C/W                          |                                                                                                    |
| Maximum Instantaneous Forward Voltage                   | $V_F$           | 0.715V<br>0.855<br>1.0V<br>1.25V | $I_{FM}=1mA$ ;<br>$I_{FM}=10mA$ ;<br>$I_{FM}=50mA$ ;<br>$I_{FM}=150mA$ ;                           |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$           | 2.5μA<br>25nA<br>50μA<br>30μA    | $V_R=75Volts$<br>$V_R=25Volts$<br>$V_R=75Volts, T_j=150^\circ C$<br>$V_R=25Volts, T_j=150^\circ C$ |
| Diode Capacitance                                       | $C_D$           | 2pF                              | Measured at 1.0MHz,<br>$V_R=0V$                                                                    |
| Reverse Recovery Time                                   | $T_{rr}$        | 4ns                              | $I_F=I_R=10mA, I_R=1mA$ ,<br>$V_R=5V, R_L=100\Omega$                                               |

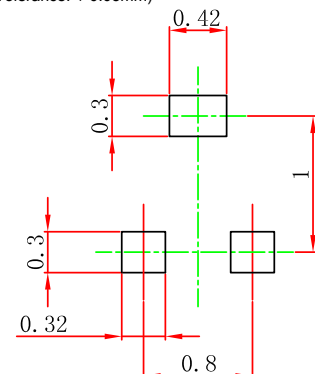
## 150mW Switching Diode

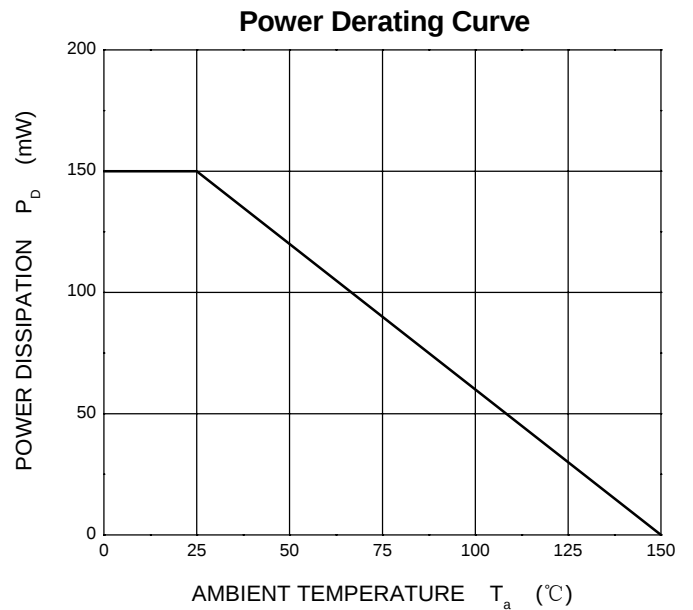
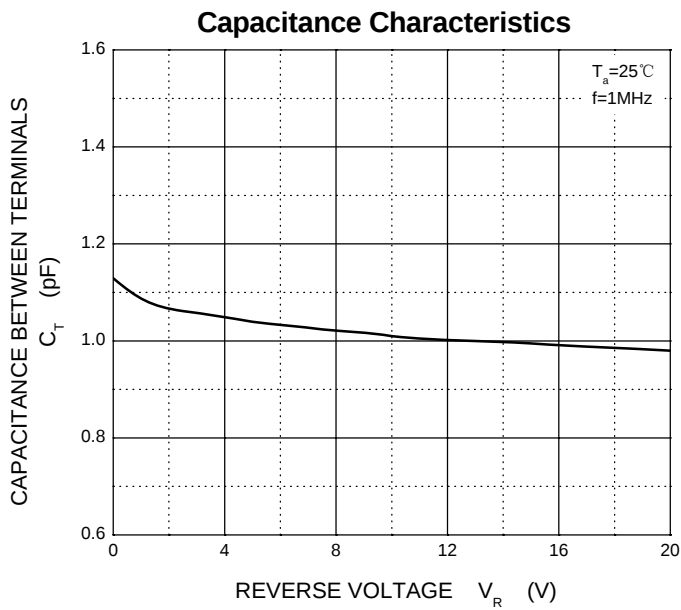
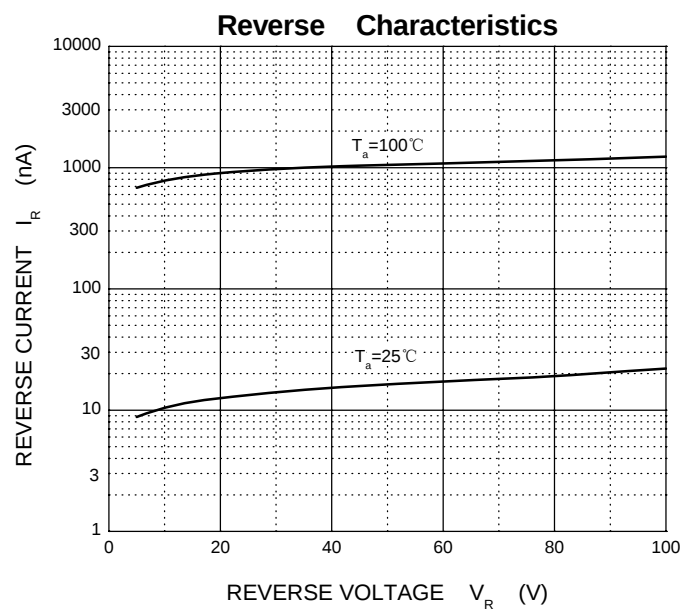
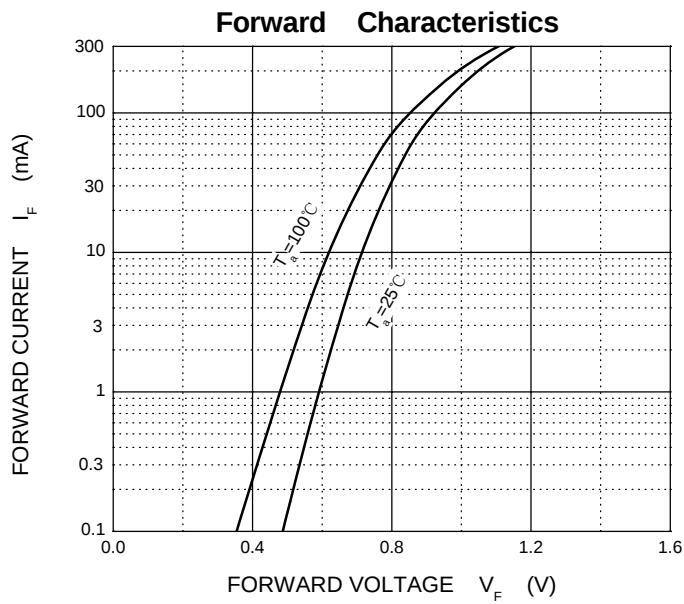
### SOT-723



| DIM | INCHES   |      | MM       |      | NOTE |
|-----|----------|------|----------|------|------|
|     | MIN      | MAX  | MIN      | MAX  |      |
| A   | .043     | .051 | 1.10     | 1.30 |      |
| B   | .043     | .051 | 1.10     | 1.30 |      |
| C   | .028     | .035 | 0.70     | 0.90 |      |
| D   | .031TYP. |      | 0.80TYP. |      |      |
| E   | .009     | .017 | 0.22     | 0.42 |      |
| F   | .005     | .013 | 0.12     | 0.32 |      |
| G   | .000     | .002 | .000     | .050 |      |
| H   | .017     | .021 | 0.43     | 0.54 |      |
| J   | .003     | .006 | .080     | .150 |      |

Recommended Solder Pad(Unit:mm)  
(Tolerance: +/-0.05mm)





## Ordering Information :

| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 8Kpcs/Reel |

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

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