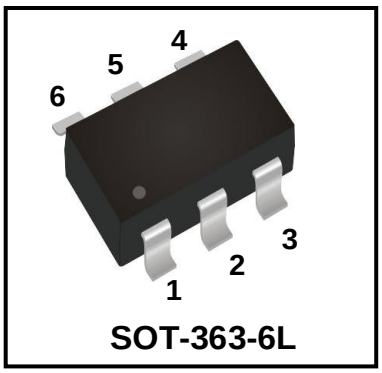
# BAV756DW

**Switching Diode Arrays**



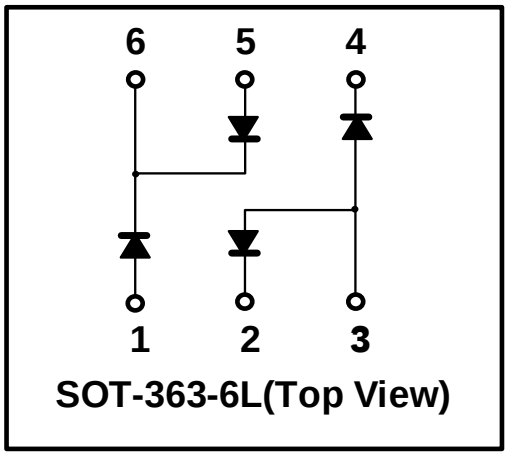

## Features

- Fast Switching Devices
- RoHS Compliant / Green EMC

## Mechanical Characteristics

- SOT-363 Package
- Marking : Making Code
- RoHS Compliant

## Schematic & PIN Configuration



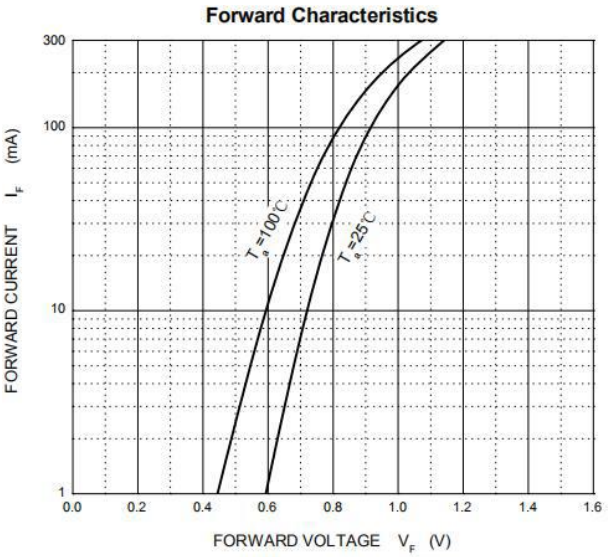

## Absolute Maximum Rating

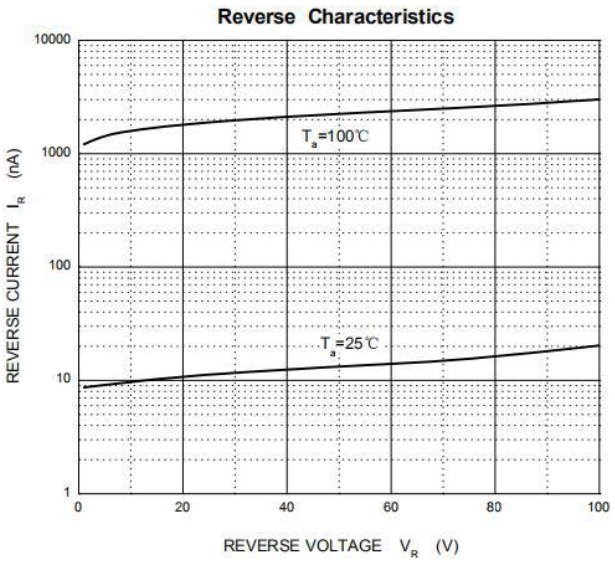
| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRW}$ | 80 | V |
| Non-repetitive Peak Forward Surge Current @t=8.3mS | $I_{FSM}$ | 2.0 | A |
| Continuous Forward Current | $I_O$ | 150 | mA |
| Power Dissipation | $P_D$ | 200 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 625 | °C/W |
| Junction and Storage Temperature | $T_J$ ,$T_{STG}$ | -55~+150 | °C |

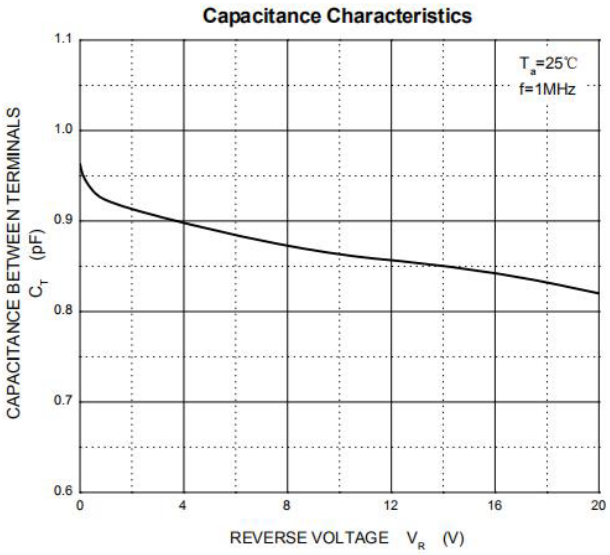
## Electrical Characteristics ($T_{amb}$=25°C unless otherwise noted)

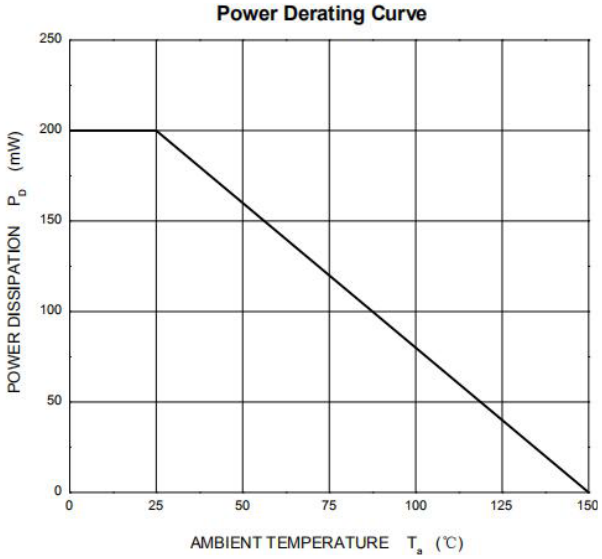
| Parameter | Symbol | Test Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage | $V_F$ | $I_F$ = 1mA | - | - | 0.715 | V |
| | | $I_F$ = 10mA | - | - | 0.855 | |
| | | $I_F$ = 50mA | - | - | 1 | |
| | | $I_F$ = 150mA | - | - | 1.25 | |
| Reverse Voltage Leakage Current | $I_R$ | $V_R$ = 20V | - | - | 0.025 | μA |
| | | $V_R$ = 75V | - | - | 2.5 | |
| Reverse Breakdown Voltage | $V_{BR}$ | $I_R$ = 2.5μA | 75 | - | - | V |
| Diode Capacitance | $C_D$ | $V_R$ =0V,f=1MHz | - | - | 2 | pF |
| Reverse Recovery Time | $t_{rr}$ | $I_F$=$I_R$=10mA,$I_{RR}$=0.1*$I_R$, $R_L$=100Ω | - | - | 4 | ns |

## Typical Characteristics



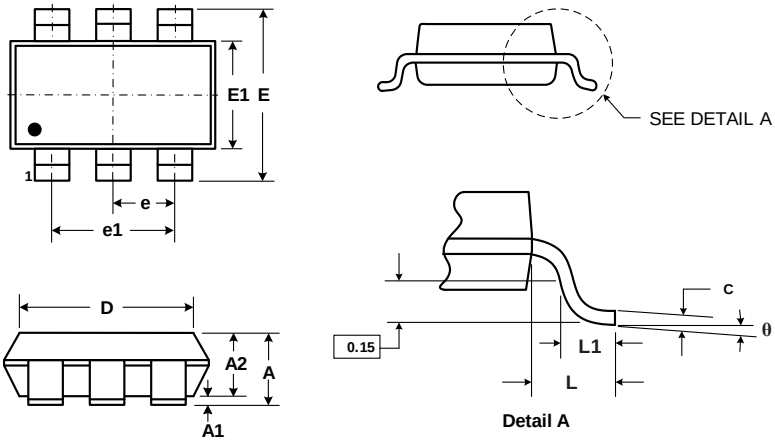



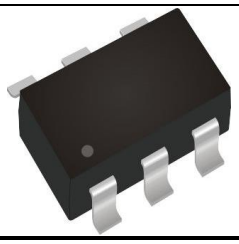



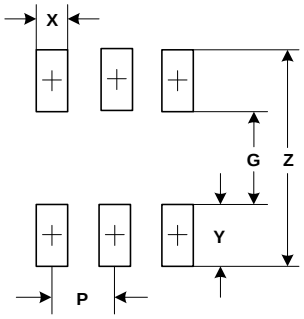
# Outline Drawing – SOT-363-6L

## PACKAGE OUTLINE



| DIMENSIONS | | | | |
|---|---|---|---|---|
| SYMBOL | INCHES | | MILLIMETER | |
| | MIN | MAX | MIN | MAX |
| A | 0.035 | 0.043 | 0.900 | 1.100 |
| A1 | 0.000 | 0.004 | 0.000 | 0.100 |
| A2 | 0.035 | 0.039 | 0.900 | 1.000 |
| D | 0.079 | 0.087 | 2.000 | 2.200 |
| E1 | 0.045 | 0.053 | 1.150 | 1.350 |
| E | 0.085 | 0.096 | 2.150 | 2.450 |
| e | 0.026 TYP | | 0.650 TYP | |
| e1 | 0.047 | 0.055 | 1.200 | 1.400 |
| L | 0.021 REF | | 0.525 REF | |
| L1 | 0.010 | 0.018 | 0.260 | 0.460 |
| θ | 0° | 8° | 0° | 8° |




| DIMENSIONS | | |
|---|---|---|
| DIM | INCHES | MILLIMETERS |
| Z | 0.090 | 2.30 |
| G | 0.073 | 1.85 |
| P | 0.020 TYP | 0.65 TYP |
| X | 0.008 | 0.20 |
| Y | 0.033 | 0.85 |

**Notes**

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Dimensions are exclusive of mold flash and metal burrs.

# Marking Codes

| Part Number | BAV756DW |
|---|---|
| Marking Code | KAC |

# Package Information

Qty：3k/Reel

## CONTACT INFORMATION

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*Specifications are subject to change without notice.*
*The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.*
*Users should verify actual device performance in their specific applications.*