

BAV99DW

BAV99DW SOT-363 Plastic-Encapsulate Switching Diode Array

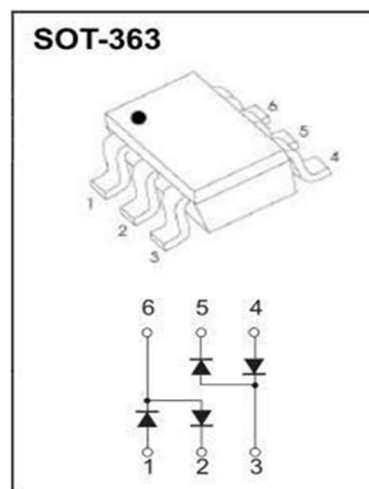
General description

SOT-363 Plastic-Encapsulate Switching Diode Array

FEATURES

- For General Purpose Switching Applications
- Ultra-Small Surface Mount Package
- Extremely Fast Switching Speed
- SOT-363 Plastic Package
- Epoxy UL: 94V-0

DEVICE MARKING: KJG



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

| Parameters | Symbol | Value | Unit |
|--|-----------------|----------|------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | |
| Working Peak Reverse Voltage | V_{RWM} | 75 | V |
| DC Blocking Voltage | V_R | | |
| Forward Continuous Current | I_{FM} | 300 | mA |
| Average Rectified Output Current | I_O | 150 | mA |
| Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$ | I_{FSM} | 2.0 | A |
| Power Dissipation | P_D | 200 | mW |
| Junction-to-Ambient Thermal Resistance | $R_{\theta JA}$ | 625 | °C/W |
| Junction and Storage Temperature | T_J, T_{STG} | -55~+150 | °C |

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

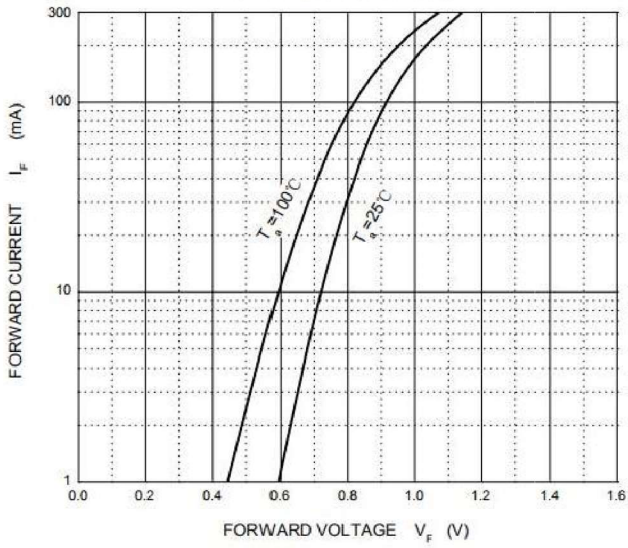
| Parameters | Symbol | Test Condition | Min | Typ | Max | Unit |
|-----------------------|----------|--|-----|-----|-------|---------------|
| Forward Voltage | V_F | $I_F=1\text{mA}$ | -- | -- | 0.715 | V |
| | | $I_F=10\text{mA}$ | -- | -- | 0.855 | |
| | | $I_F=50\text{mA}$ | -- | -- | 1 | |
| | | $I_F=150\text{mA}$ | -- | -- | 1.25 | |
| Reverse Voltage | V_R | $I_R=2.5\mu\text{A}$ | 75 | -- | -- | V |
| Reverse Current | I_R | $V_R=75\text{V}$ | -- | -- | 2.5 | μA |
| | | $V_R=20\text{V}$ | -- | -- | 25 | nA |
| Total Capacitance | C_T | 1MHz, $V_R=0\text{V}$ | -- | -- | 2 | pF |
| Reverse Recovery Time | t_{rr} | $I_F=I_R=10\text{mA}$, $I_{tr}=0.1 \times I_R$, $R_L=100\Omega$ | -- | -- | 4 | nS |

BAV99DW

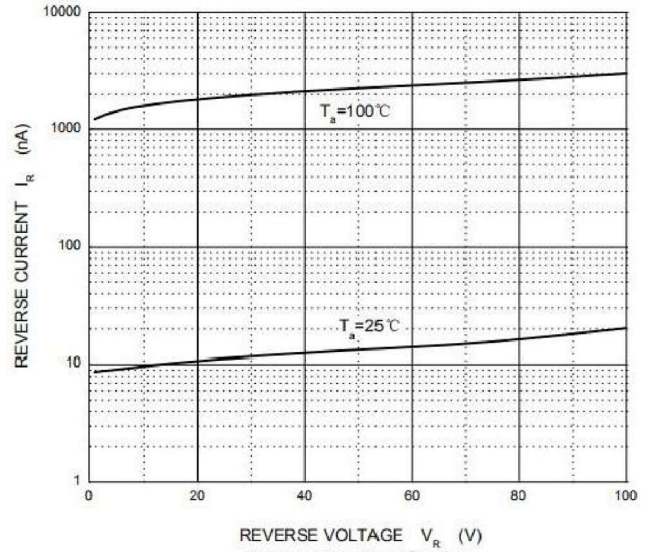


Typical Characteristics

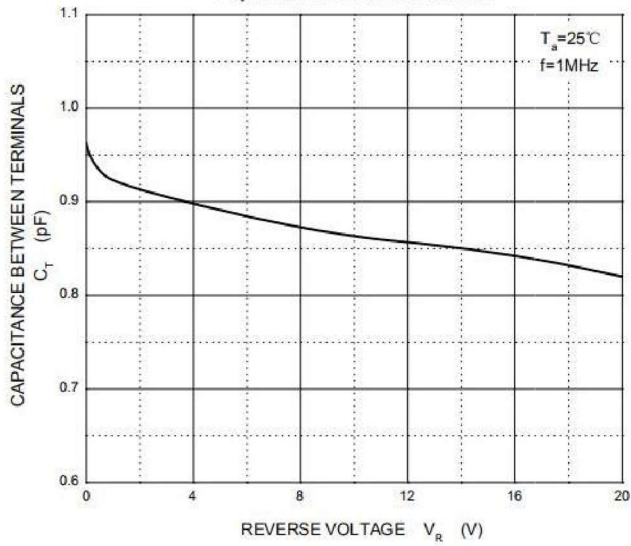
Forward Characteristics



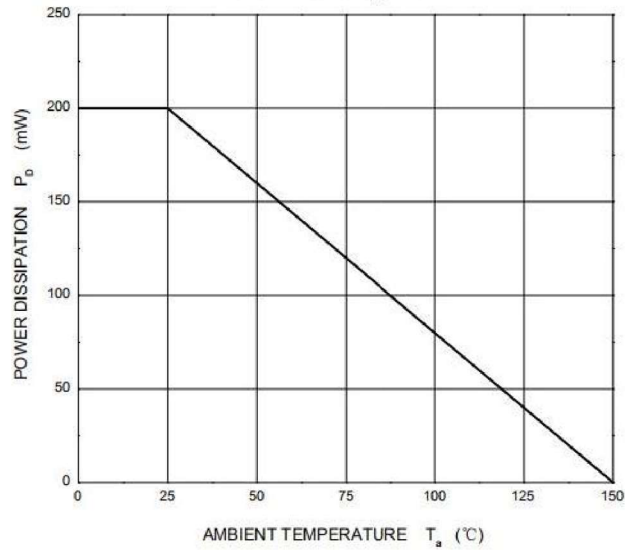
Reverse Characteristics



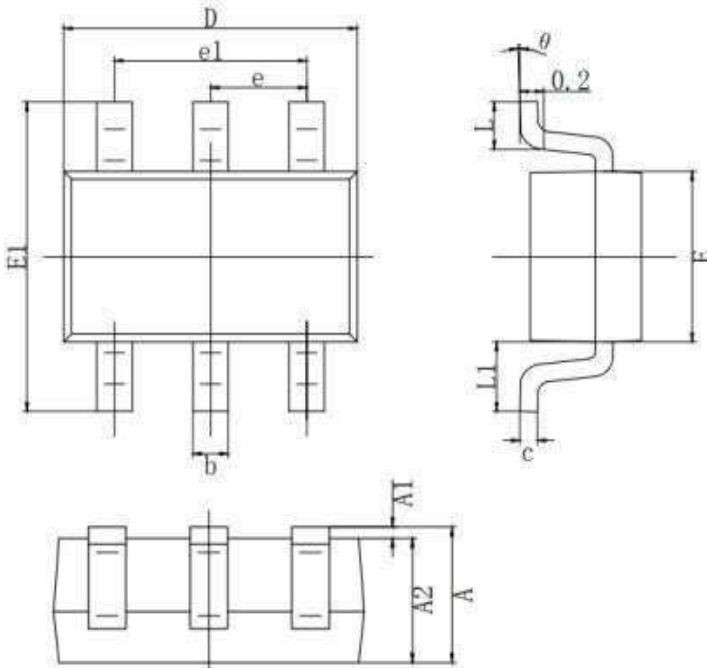
Capacitance Characteristics



Power Derating Curve

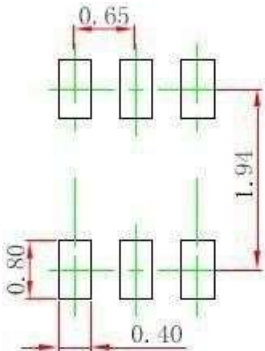


SOT-363 PACKAGE OUTLINE Plastic surface mounted package



| SYMBOL | MILLIMETER | |
|--------|------------|-------|
| | MIN | MAX |
| A | 0.900 | 1.100 |
| A1 | 0.000 | 0.100 |
| A2 | 0.900 | 1.000 |
| b | 0.150 | 0.350 |
| e | 0.080 | 0.150 |
| D | 2.000 | 2.200 |
| E | 1.150 | 1.350 |
| E1 | 2.150 | 2.450 |
| e | 0.650 TYP. | |
| e1 | 1.200 | 1.400 |
| L | 0.525 REF. | |
| L1 | 0.280 | 0.460 |
| theta | 0° | 8° |

Precautions: PCB Design (Recommended land dimensions for SOT-363 diode. Electrode patterns for PCBs)



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Diodes - General Purpose, Power, Switching category:](#)

Click to view products by [Doeshare manufacturer:](#)

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [BAV17-TR](#) [BAV19-TR](#) [1N3611](#) [NTE156A](#) [NTE574](#) [NTE6244](#) [1SS181-TP](#)
[1SS400CST2RA](#) [SDAA13](#) [SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914B](#) [1N914BTR](#) [1SS226-TP](#)
[RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-7-F](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4153-1](#)
[JAN1N4454-1](#) [JAN1N4454UR-1](#) [LL4151-GS18](#) [053684A](#) [SMMSD4148T3G](#) [707803H](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#) [LL4150-M-08](#)
[1N4454-TR](#) [BAV199E6433HTMA1](#) [BAV70HDW-7](#) [BAS28-7](#) [JANTX1N6640](#) [BAW56HDW-13](#) [BAS28 TR](#) [VS-HFA04SD60STR-M3](#)
[NSVM1MA152WKT1G](#) [1SS388-TP](#) [RGP30D-E3/73](#) [VS-8EWF02S-M3](#)