



BAS116TW/BAW156DW/BAV170DW/BAV199S

SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200mWatts

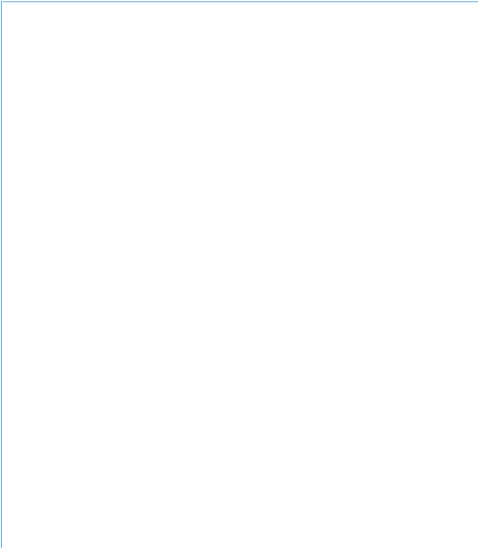
SOT-363 Unit: inch (mm)

FEATURES

- Surface mount package ideally suited for automatic insertion.
- Very low leakage current. 2nA typical at VR=75V.
- Low capacitance. 2pF max at VR=0V, f=1MHz
-

MECHANICAL

- Case: SOT-363 plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.006 grams
- Marking: BAS116TW :PA,BAW156DW :P4,BAV170DW :P3,BAV199S :PB



ABSOLUTE RATINGS (each diode)

PARAMETER	Symbol	Value	Units
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Continuous Forward Current	I_F	0.2	A
Non-repetitive Peak Forward Surge Current at t=1.0us	I_{FSM}	4.0	A

THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Units
Power Dissipation (Note 1)	P_{TOT}	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_J	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C

NOTE:

1. FR-4 Board = 70 x 60 x 1mm.

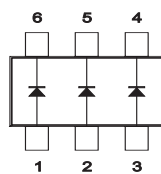


Fig.48
BAS116TW

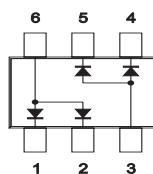


Fig.51
BAW156DW

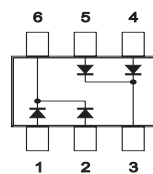


Fig.52
BAV170DW

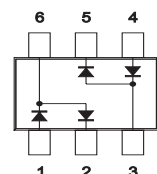


Fig.32
BAV199S