



BAV99STB6

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200m Watts

SOT-563 Unit : inch(mm)

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- High Conductance
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MECHANICAL DATA

- Case: SOT-563, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.0001 ounces, 0.0026 grams
- Marking : TC

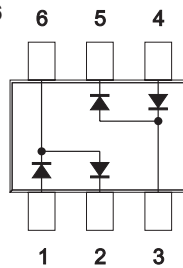
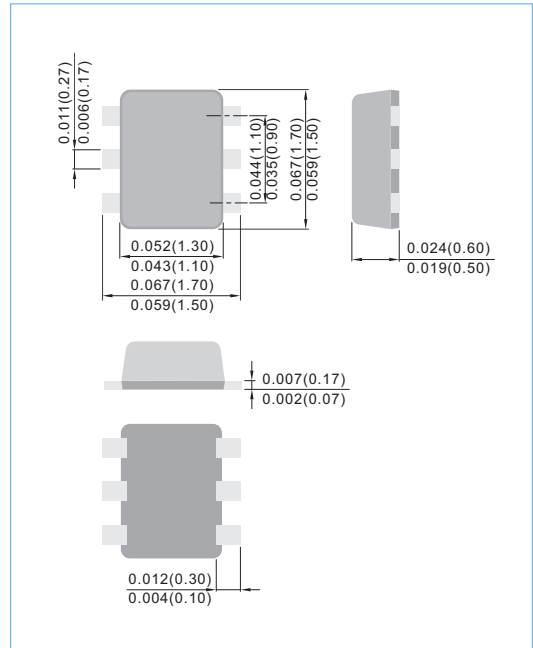


Fig.32



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAV99STB6	UNITS
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Rectified Current (Average),Half Wave Rectification With Resistive Load and $f \geq 50\text{Hz}$	I_O	150	mA
Peak Forward Surge Current, 1.0 μs	I_{FSM}	4.0	A
Power Dissipation Derate Above 25°C	P_{TOT}	200	mW
Maximum Forward Voltage	V_F	0.715@ $I_F=0.001\text{A}$ 0.855@ $I_F=0.01\text{A}$ 1.0@ $I_F=0.05\text{A}$ 1.25@ $I_F=0.15\text{A}$	V
Maximum DC Reverse Current at 25V 75V	I_R	0.03 2.5	μA
Maximum Junction Capacitance (0V, $f=1.0\text{MHz}$)	C_J	1.5	pF
Maximum Reverse Recovery Time	T_{RR}	4.0	ns
Typical Thermal Resistance	$R_{\theta JA}$	625	°C / W
Junction Temperature Range	T_J	-55 to +150	°C