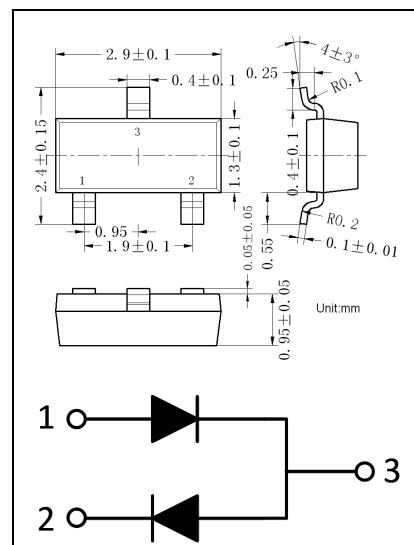


## SOT-23 Plastic-Encapsulate Diodes

### BAV99 Switching Diodes

#### Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



#### Maximum Ratings ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

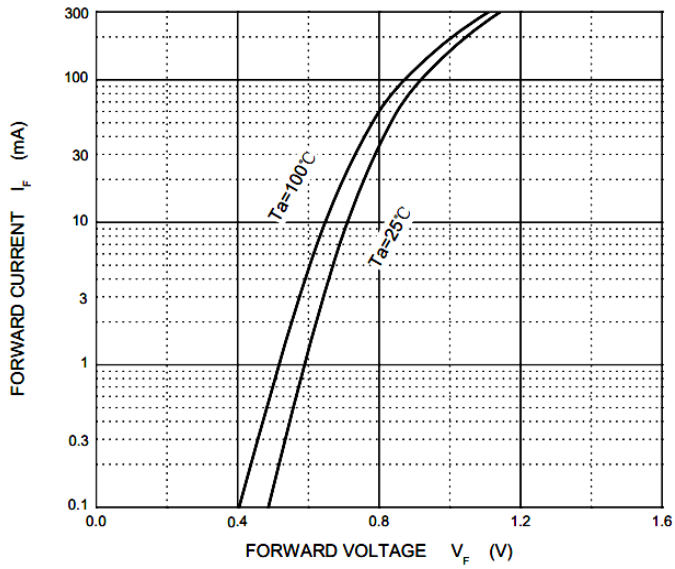
Symbol	Parameter	Value	Unit
$V_R$	Reverse Voltage	70	V
$I_F$	Forward Continuous Current	200	mA
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	2.0	A
$P_D$	Power Dissipation	225	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	556	$^{\circ}\text{C}/\text{W}$
$T_j$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

#### Electrical Characteristics ( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

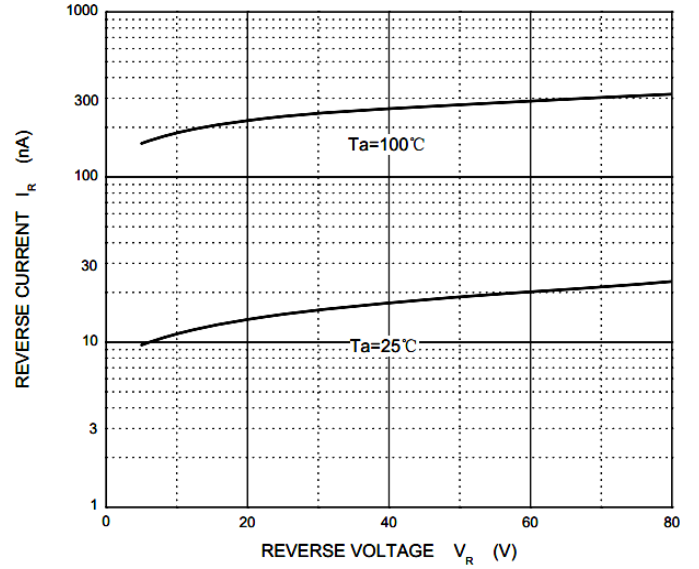
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R = 100\mu\text{A}$	70			V
$V_F$	Forward voltage	$I_F = 1\text{mA}$			0.715	V
		$I_F = 10\text{mA}$			0.855	V
		$I_F = 50\text{mA}$			1	V
		$I_F = 150\text{mA}$			1.25	V
$I_R$	Reverse current	$V_R = 70\text{V}$			2.5	$\mu\text{A}$
$C_D$	Diode capacitance	$V_R = 0, f = 1\text{MHz}$			1.5	pF
$t_{rr}$	Reverse recovery time	$I_F = I_R = 10\text{mA}, I_{tr} = 0.1 \times I_R$ $R_L = 100\Omega$			6	ns

# Typical Characteristics

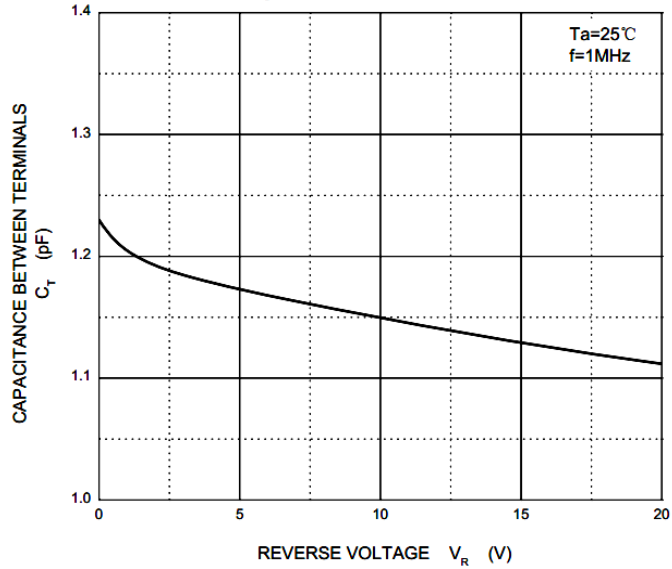
**Forward Characteristics**



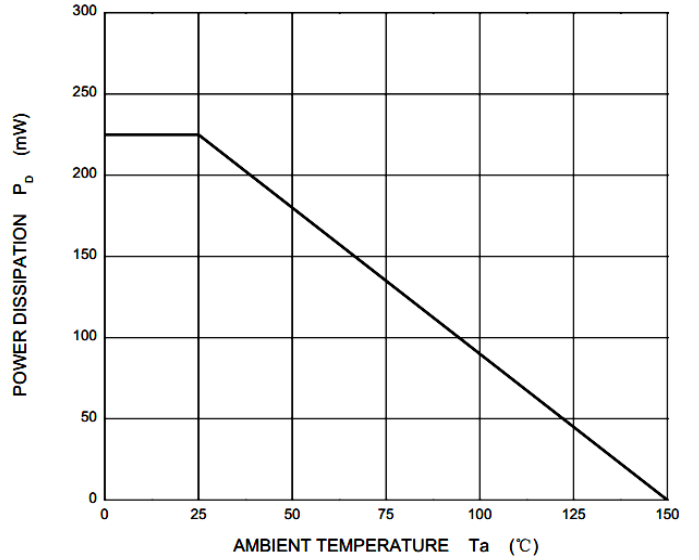
**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**



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