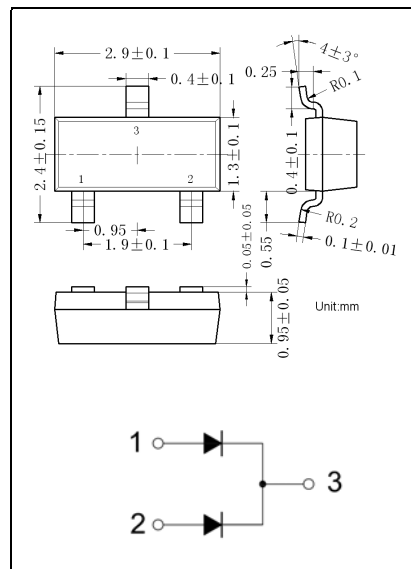


SOT-23 Plastic-Encapsulate Diodes

BAV70 SWITCHING DIODE

FEATURES

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



Maximum Ratings @Ta=25°C

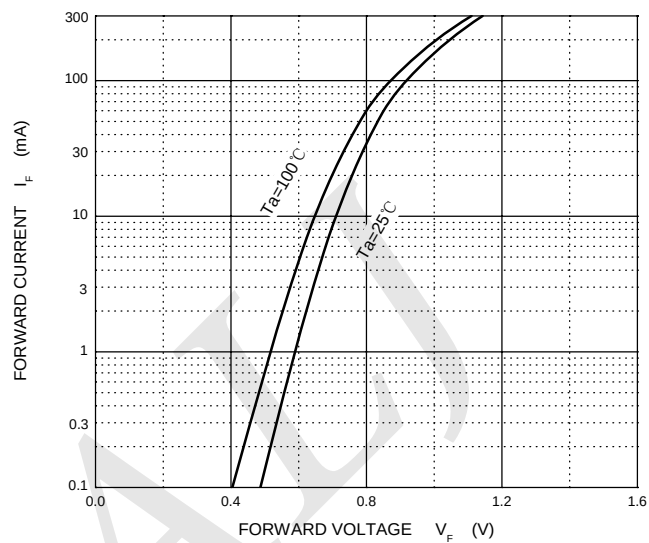
Symbol	Parameter	Limit	Unit
V_{RRM}	Peak Repetitive Peak Reverse Voltage	100	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage	75	
I_F	Forward Current	215	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.0	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	357	°C/W
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature range	-55~+150	°C

Electrical Characteristics @Ta=25°C

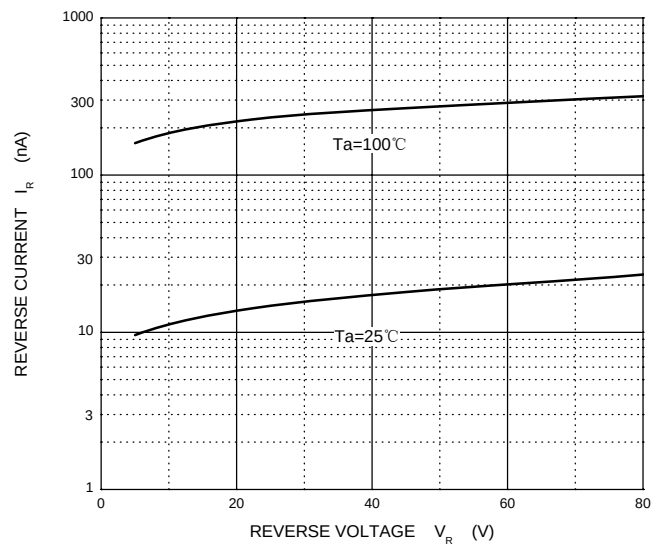
Symbol	Parameter	Min	Typ	Max	Unit	Conditions
V_R	Reverse breakdown voltage	75			V	$I_R=100\mu A$
V_{F1}	Forward voltage			0.715	V	$I_F=1mA$
V_{F2}				0.855	V	$I_F=10mA$
V_{F3}				1	V	$I_F=50mA$
V_{F4}				1.25	V	$I_F=150mA$
I_R	Reverse current			2.5	μA	$V_R=75V$
C_T	Capacitance between terminals			2	pF	$V_R=0, f=1MHz$
t_{rr}	Reverse recovery time			4	ns	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

Typical Characteristics

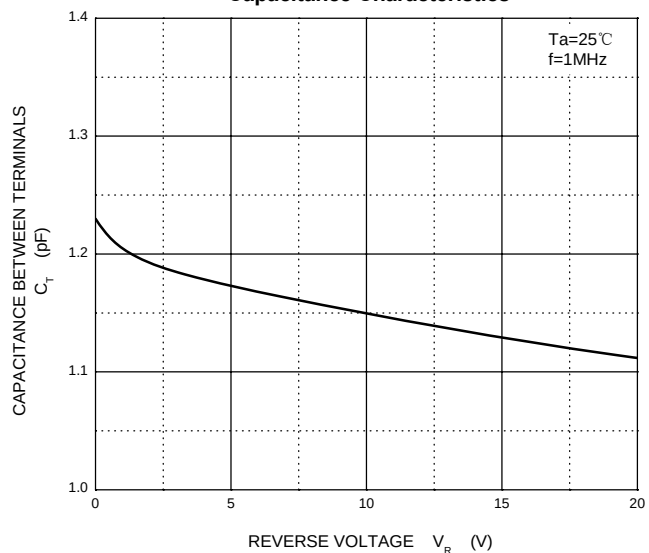
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

