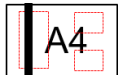
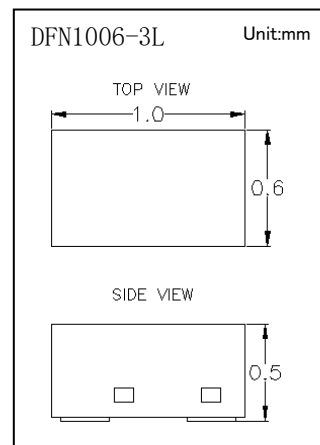
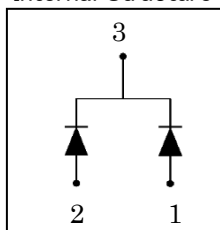


- ◇ Fast Switching Speed
- ◇ High Conductance
- ◇ Small Outline Surface Mount Package
- ◇ RoHS compliant / Green EMC

Device	Device Marking
BAV70D2	

Internal Structure



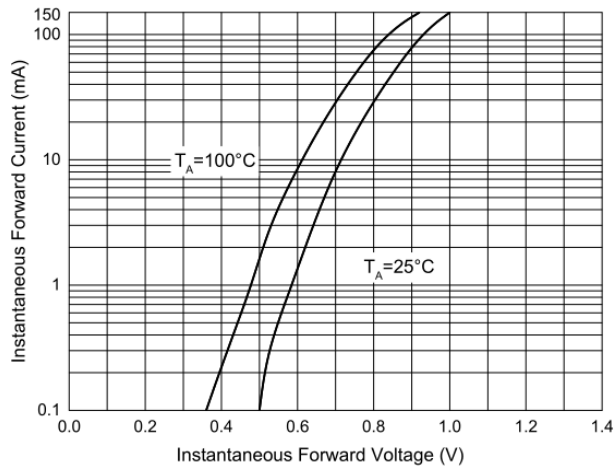
Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	75	V
I_o	Average Rectified Output Current	100	mA
P_d	Power Dissipation	150	mW
I_{FSM}	Peak Forward Surge Current @t=1.0us Non-Repetitive	2.0	A
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55 to 150	°C
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	833	°C/W

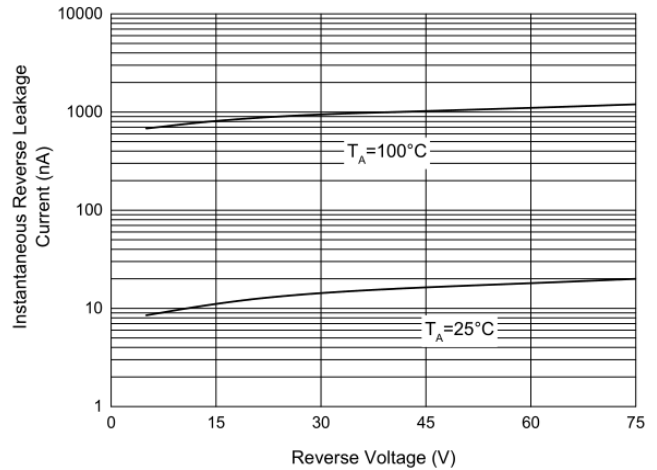
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
V_F	Forward Voltage	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$		0.715 0.855 1.00 1.25	V
V_{BR}	Reverse Breakdown Voltage	$I_R=100\mu A$	75		V
I_R	Reverse Current	$V_R=25V$ $V_R=75V$		25 2.5	nA uA
C_d	Diode Capacitance	$V_R=0V, f=1.0MHz$		2	pF
T_{rr}	Reverse Recovery Time	$I_F=10mA, I_R=10mA$ $I_{rr}=0.1 * I_R, V_R=6.0V$ $R_L=50 \Omega$		4	nS

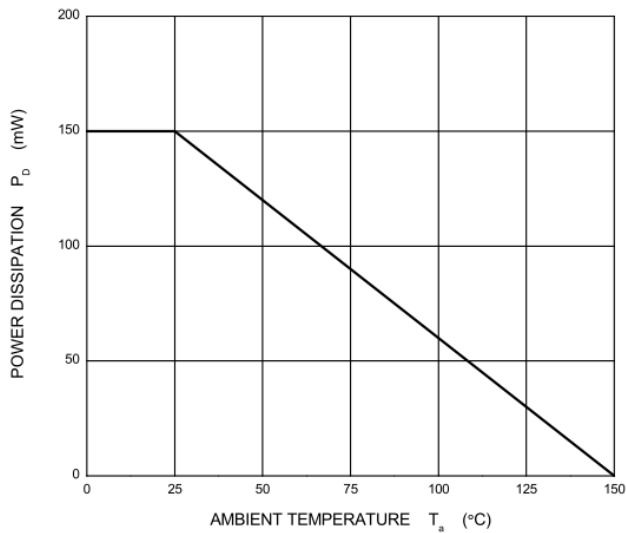
Typical Characteristics



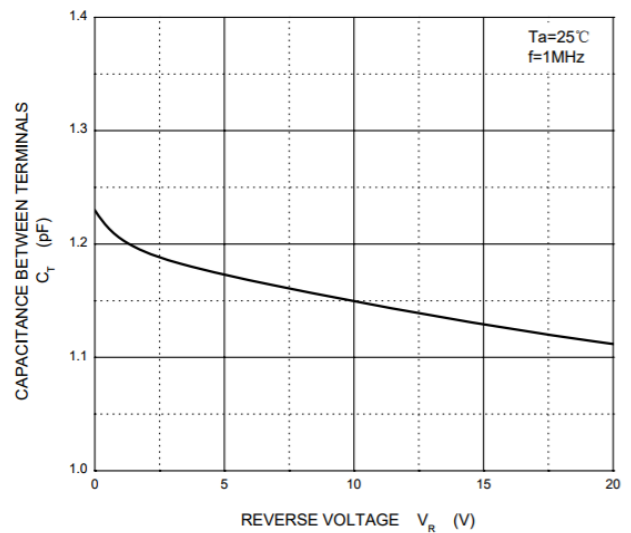
Forward Characteristics



Reverse Characteristics



Power Derating Curve



Capacitance Characteristics

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV70D2	DFN1006-3L	Tape & Reel 10000 pcs / 7" Reel	8mm	4mm	Conductive	

Package Dimensions

