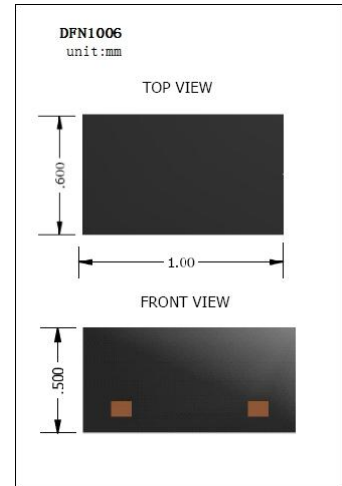


- ◇ Fast switching devices
- ◇ Low Reverse Leakage Current
- ◇ RoHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ P/N suffix V means Halogen-free
- ◇ P/N suffix V means AEC-Q101 qualified, e.g: BAS16LV

Pin & Polarity



Device Marking Code	
BAS16LV	<u>S2</u>

Maximum Ratings (Ta = 25 °C)

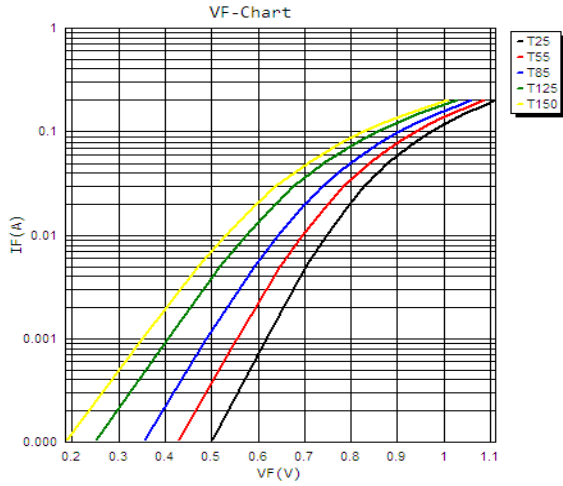
Symbol	Parameter	Value	Units
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	75	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	Dc Blocking Voltage		
I_{FRM}	Repetitive Peak Forward Current	300	mA
I_O	Average Forward Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Current*1	2	A
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics (Ta = 25 °C unless otherwise noted)

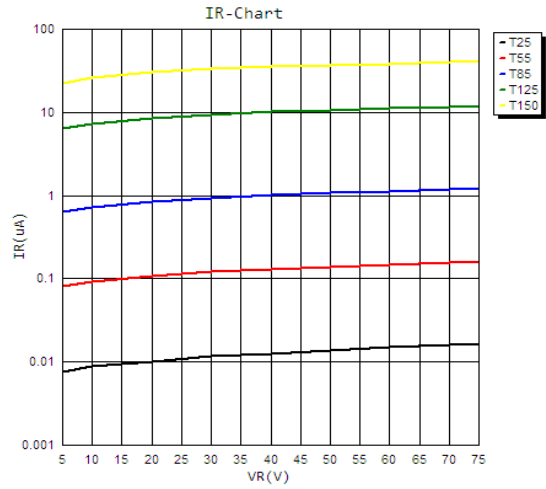
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_R	Reverse Voltage	$I_R=100\mu A$	75			V
V_F	Forward Voltage	$I_F=5mA$	0.62		0.72	V
		$I_F=10mA$			0.855	
		$I_F=100mA$			1.0	
		$I_F=150mA$			1.25	
I_R	Reverse Leakage Current	$V_R=80V$ $V_R=20V$			100 25	nA
C	Capacitance	$V_R = 0.5V, f = 1MHz$			3	pF
T_{RR}	Reverse Recovery Time	$I_F = I_R = 10mA$ $I_{RR} = 1mA, R_L = 100\Omega$			4	ns

*1: Pulse width = 1 μ s

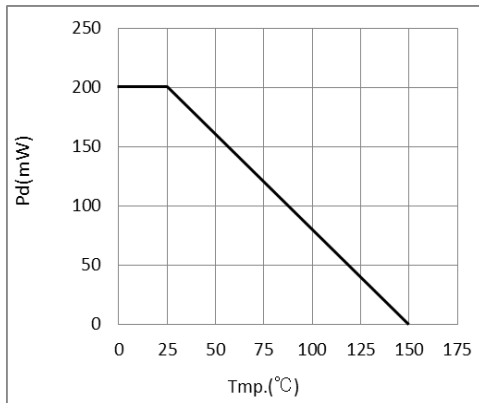
RATING AND CHARACTERISTICS CURVES (BAS16LV)



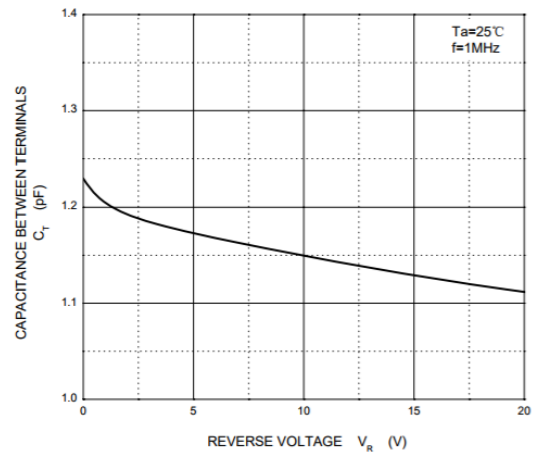
Forward current(I_F) vs Forward voltage(V_F)



Reverse current(I_R) vs Reverse voltage(V_R)



Power Derating Curve

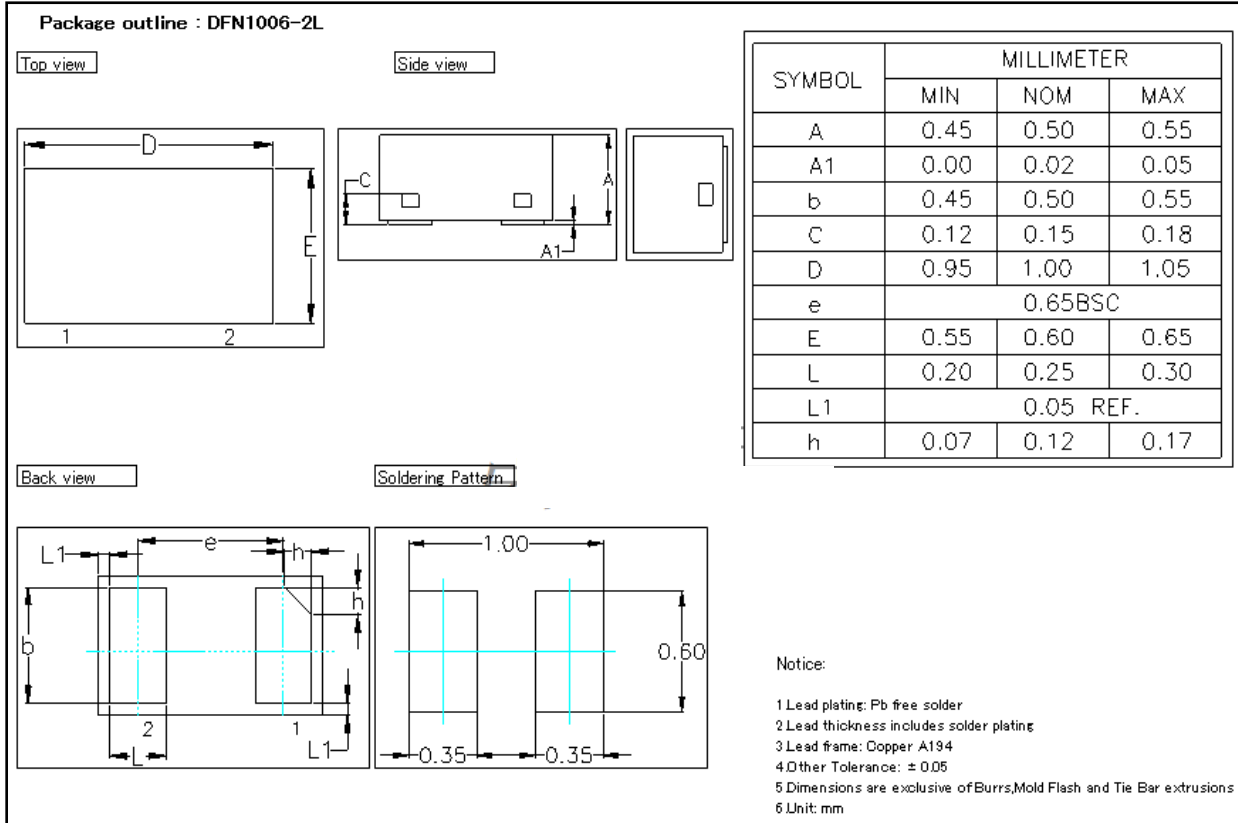


Capacitance vs Reverse voltage(V_R)

ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Package Code
BAS16LV	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	-T

Package Dimensions



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