

Obsolete

M.C.C.

Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

BAS32L

Features

- High-Speed Switching and High Reverse Breakdown Voltage
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Mechanical Data

- Case: MiniMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Min	Max	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		75	V
Continuous reverse Voltage	V_R		75	V
Continuous forward current	I_F		200	mA
Repetitive peak Forward Current	I_{FRM}		450	mA
Non-rep. Peak Forward Current $t=1\ \mu s$ $t=1\ ms$ $t=1\ s$	I_{FSM}		4 1 0.5	A
Power Dissipation	P_d		500	mW
Thermal Resistance(Note 2)	R		350	K/W
Operation/Storage Temp. Range	T_j, T_{STG}	-65	200	°C

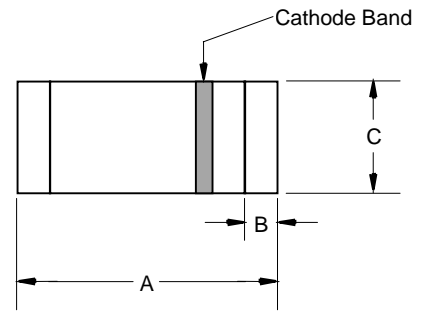
Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Min	Max	Unit	Test Cond.
Reverse Breakdown Volt.	$V_{(BR)R}$	100	-----	V	$I_R=100\ \mu A$
Reverse Current	I_R	-----	25 5 50 100	nA μA μA μA	$V_R=20V$ $V_R=75V$ $V_R=20V; T_j=150^\circ C$ $V_R=75V; T_j=150^\circ C$
Forward Voltage	V_F	620 --- ---	750 1000 930	mV mV mV	$I_F=5mA$ $I_F=100mA$ $I_F=100mA; T_j=100^\circ C$
Junction Capacitance	C_j	-----	2.0	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-----	4	ns	$I_F=I_R=10mA$ $I_{r1}=1mA$ $R_L=100\ \Omega$

- Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.
2. Valid provided that electrodes are kept at ambient temperature
3. Device mounted on an FR4 printed-circuit board.

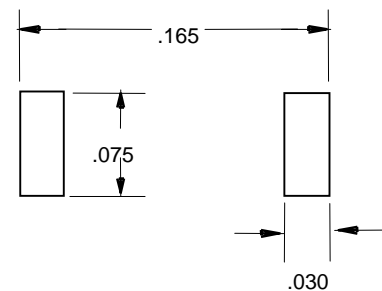
High Speed Switching Diode

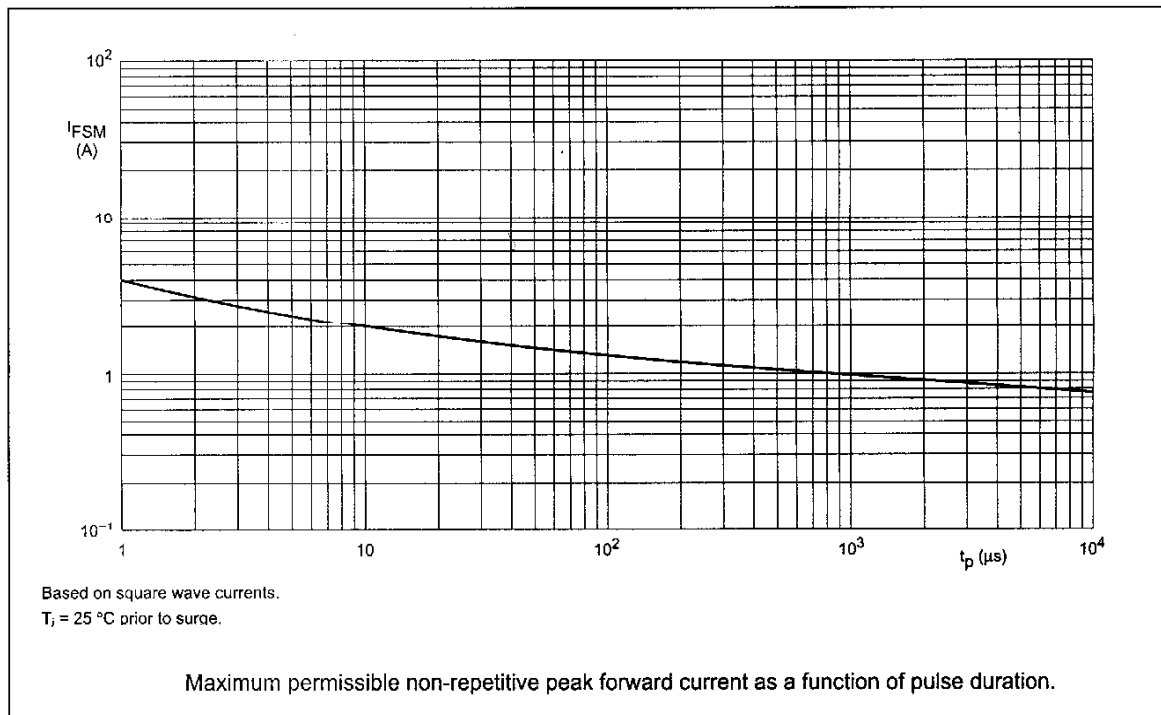
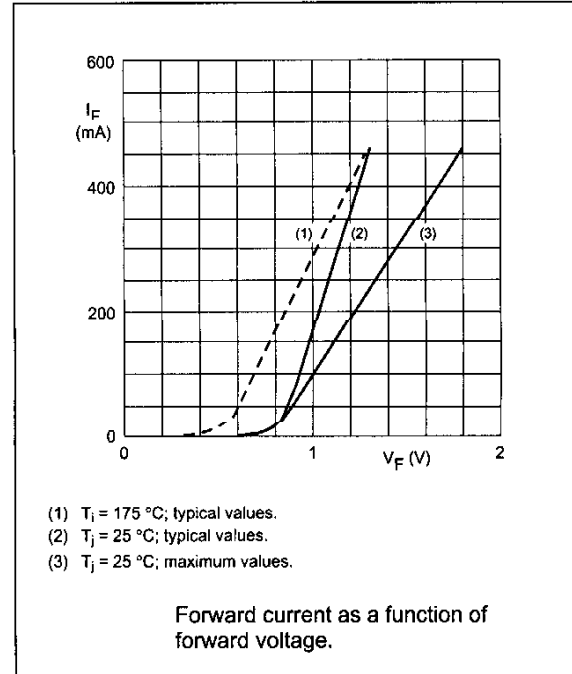
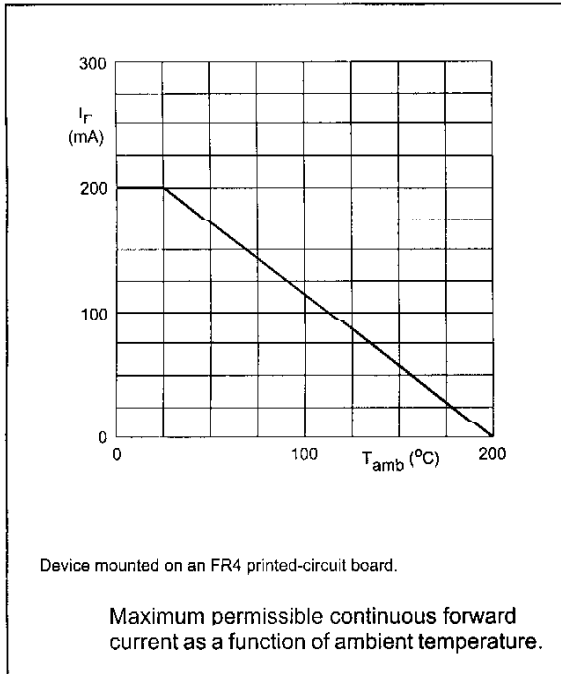
MINIMELF

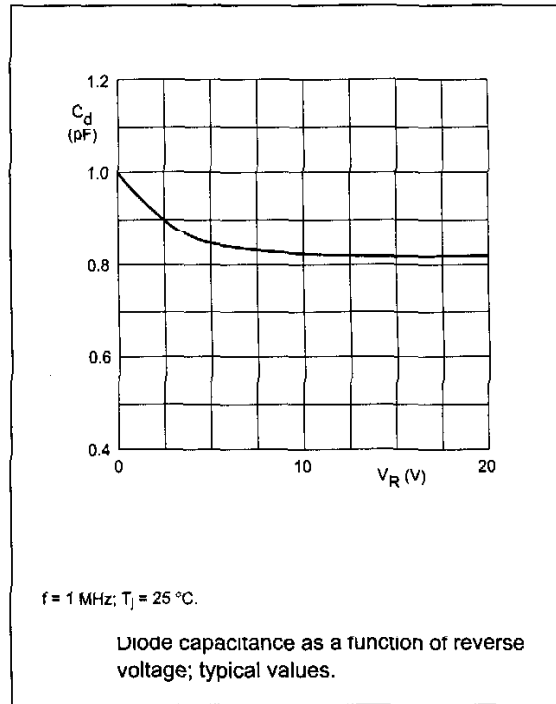
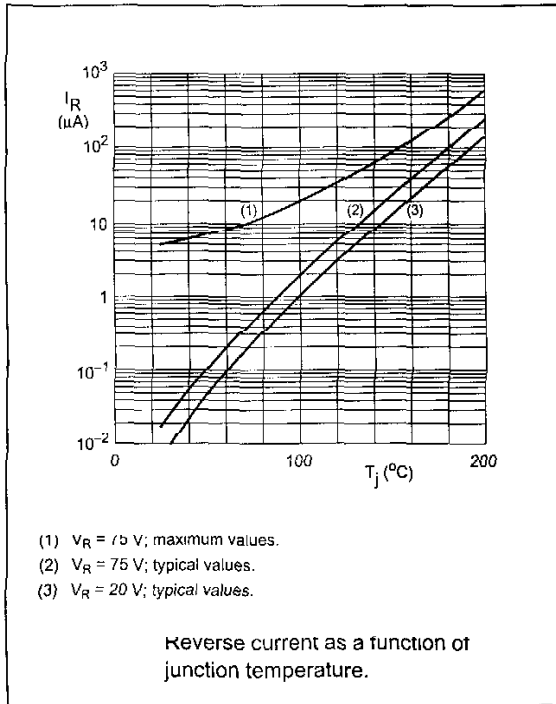


DIM	DIMENSION				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	0.20	0.40	
C	.055	.059	1.40	1.50	

SUGGESTED SOLDER PAD LAYOUT









TM

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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