



Micro Commercial Components



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

BAL99

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: JF

350mW 70Volt Switching Diode

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 556°C/W Junction To Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Voltage	V_R	70V	
Average Rectified Output Current	I_O	100mA	
Power Dissipation	P_{TOT}	350mW	
Maximum Instantaneous Forward Voltage	V_F^*	715mV	$I_{FM} = 1mA;$
		855mV	$I_{FM} = 10mA;$
		1000mV	$I_{FM} = 50mA;$
		1250mV	$I_{FM} = 150mA;$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	2.5uA	$V_R=70Volts$
Typical Junction Capacitance	C_J	1.5pF	Measured at 1.0MHz, $V_R=0V$
Reverse Recovery Time	T_{rr}	6nS	$I_F=I_R=10mA$ $R_L=100\Omega, I_{rr}=0.1 \times I_R$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

SOT-23

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout

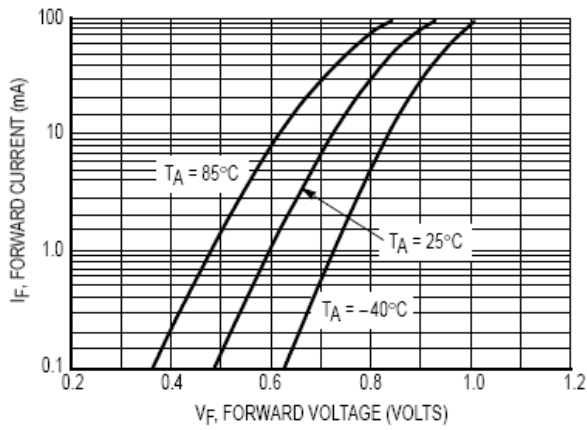


Figure 1. Forward Voltage

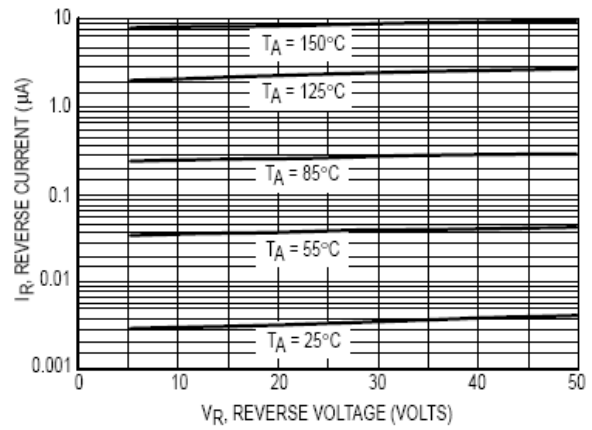


Figure 2. Leakage Current

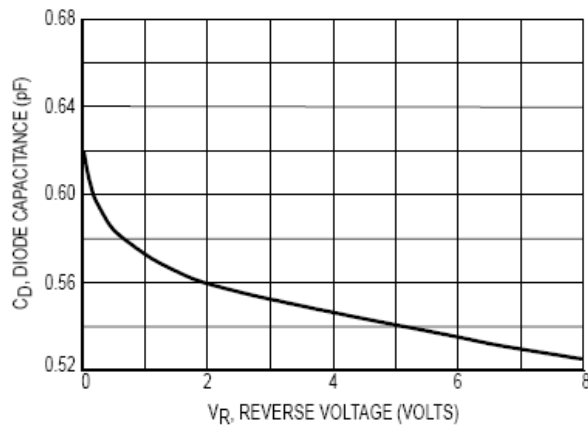


Figure 3. Capacitance



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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