



Micro Commercial Components



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

BAT54L

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Ultra-Small Surface Mount Package
- Low Forward Voltage Drop
- Extremely Fast Switching Speed
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: L9



CATHODE ANODE

Maximum Ratings

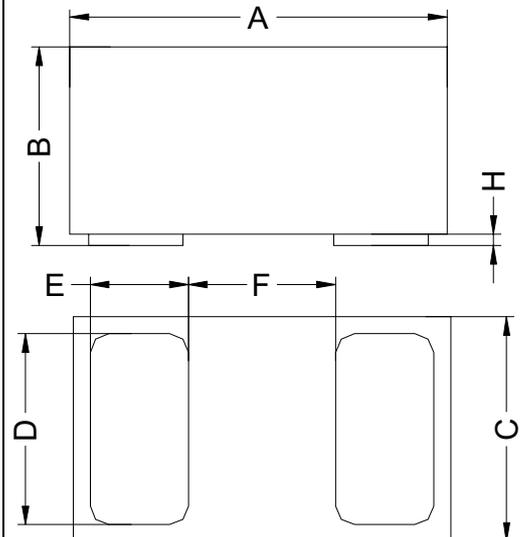
Repetitive Peak Reverse Voltage	V_R	30V
Average Rectified Output Current	I_O	100mA
Forward continuous Current	I_F	200mA
Repetitive Peak Forward Current	I_{FRM}	300mA
Forward Surge Current @ $t < 1.0$ s	I_{FSM}	600mA
Total Power Dissipation @ $T_A = 25^\circ\text{C}$	P_D	200mW
Storage Temperature Range	T_{stg}	-65°C to 150°C
Junction Temperature	T_j	125°C
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage	V_F	240mV	$I_F = 0.1\text{mA}$
		320mV	$I_F = 1.0\text{mA}$
		400mV	$I_F = 10\text{mA}$
		500mV	$I_F = 30\text{mA}$
		1000mV	$I_F = 100\text{mA}$
Reverse Current	I_R	$2\mu\text{A}$	$V_R = 25\text{V}$
Reverse Breakdown Voltage	$V_{(BR)}$	$>30\text{V}$	$I_R = 100\mu\text{A}$
Total Capacitance	C_T	10pF	Measured at 1.0MHz , $V_R = 1.0\text{V}$
Reverse Recovery Time	t_{rr}	5ns	$I_F = 10\text{mA}$; $I_R = 10\text{mA} \sim 1.0\text{mA}$, $R_L = 100\Omega$

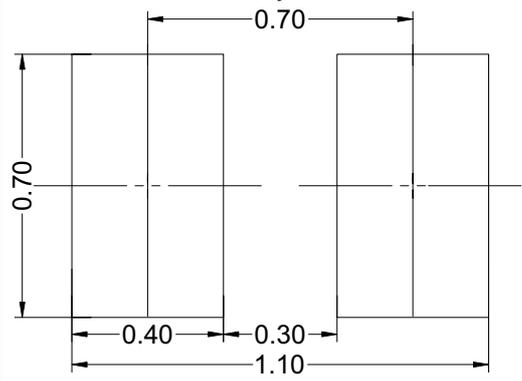
200mWatt, 30Volt Schottky Barrier Diode

DFN1006-2



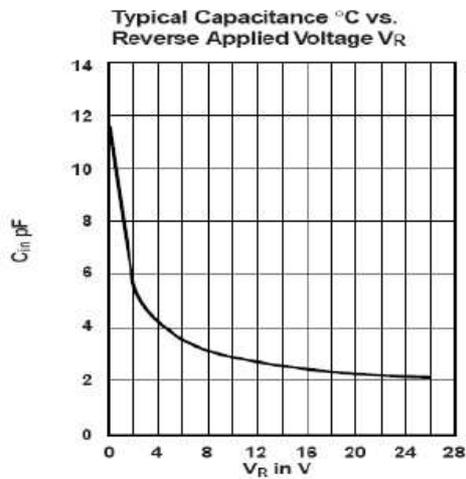
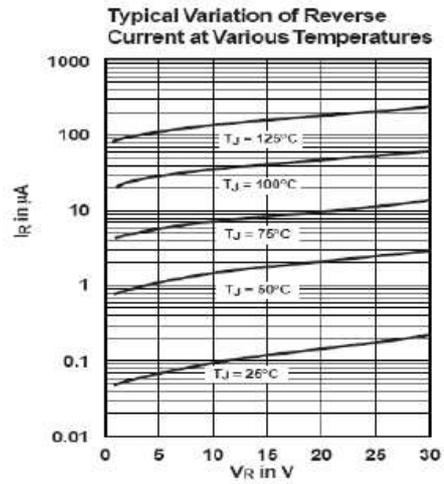
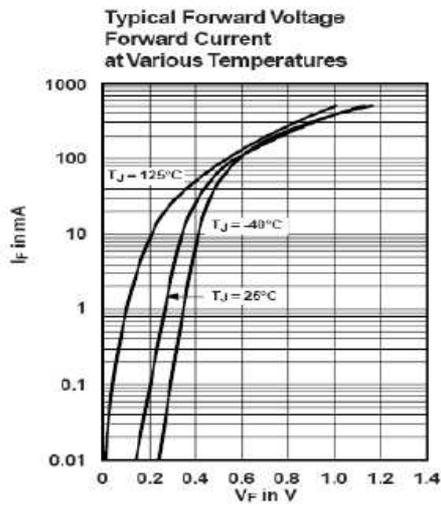
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.037	0.042	0.95	1.075	
B	0.019	0.021	0.47	0.53	
C	0.022	0.027	0.55	0.675	
D	0.018	0.022	0.45	0.55	
E	0.008	0.012	0.20	0.30	
F	0.016 TYP.		0.400 TYP.		
H	0.000	0.002	0.00	0.05	

Suggested Solder Pad Layout



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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified





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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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