mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

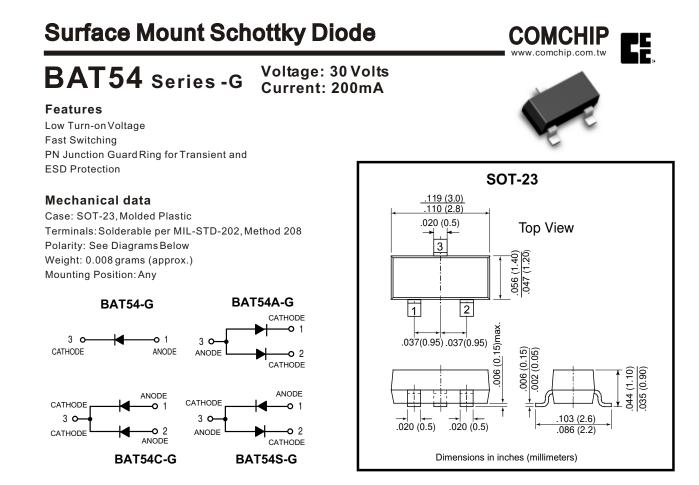
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Maximum Ratings ($T_A = 125^{\circ}C$ unless otherwise noted)

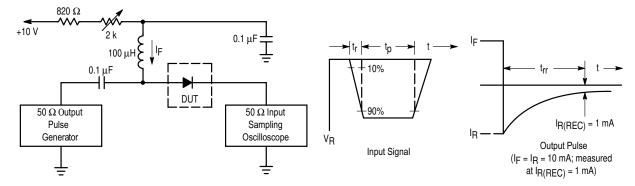
Rating	Symbol	Value	Units
Reverse Voltage	V _R	30	Volts
Forward Power Dissipation @ TA = 25°C	P _F	225	mW
Derate above 25°C	'F	1.8	mW/°C
Forward Current (DC)	I _F	200 Max	mA
Junction Temperature	TJ	125 Max	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characterics (T_A = 25°C unless otherwise noted) (EACH DIODE)

Parameter	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage (IR = 10 mA)	V _{(BR)R}	30	—	—	Volts
Total Capacitance (VR = 1.0 V, f = 1.0 MHz)	CT	_	7.60	10.0	pF
Reverse Leakage (VR = 25 V)	I _R	_	0.50	2.0	mAdc
Forward Voltage (IF = 0.1 mAdc)			0.22	0.24	
(IF = 30 mAdc)	V _F	—	0.41	0.5	Vdc
(IF = 100 mAdc)			0.52	1.0	
Reverse Recovery Time	t _{rr}			5.0	ns
(IF = IR = 10 mAdc, IR(REC) = 1.0 mAdc) Figure 1	۲r	—		5.0	115
Forward Voltage (IF = 1.0 mAdc)	V _F	_	0.29	0.32	Vdc
(IF = 10 mAdc)	۷F		0.35	0.40	Vuc
Forward Current (DC)	I _F	—	—	200	mAdc
Repetitive Peak Forward Current	I _{FRM}	—	—	300	mAdc
Non–Repetitive Peak Forward Current (t < 1.0 s)	I _{FSM}	_	—	600	mAdc



RATING AND CHARACTERISTIC CURVES (BAT54 Series-G)



Notes: 1. A 2.0 k Ω variable resistor adjusted for a Forward Current (I_F) of 10 mA. 2. Input pulse is adjusted so I_{R(peak)} is equal to 10 mA. 3. t_p » t_{rr}



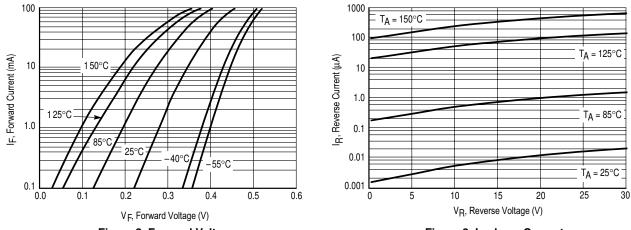


Figure 2. Forward Voltage



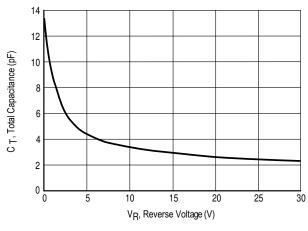


Figure 4. Total Capacitance