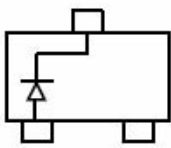
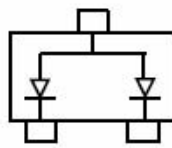


FEATURES

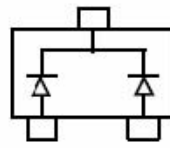
- ◆ Extremely Fast Switching Speed



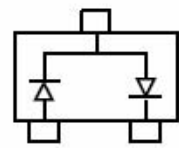
BAT54
MARKING : KL1



BAT54A
MARKING : KL2



BAT54C
MARKING : KL3



BAT54S
MARKING : KL4

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	30	V
Forward Continuous Current	I_{FM}	200	mA
Power Dissipation	P_D	200	mW
Storage temperature	T_{STG}	-55-150	°C

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	30			V	$I_R=100\mu A$
Forward voltage	V_{F1}			0.24	V	$I_F=0.1mA$
	V_{F2}			0.32	V	$I_F=1mA$
	V_{F3}			0.40	V	$I_F=10mA$
	V_{F4}			0.50	V	$I_F=30mA$
	V_{F5}			1	V	$I_F=100mA$
Reverse current	I_R			2	μA	$V_R=25V$
Diode Capacitance	C_D			10	pF	$V_R=1V, f=1MHz$
Reverse Recovery Time	t_{rr}			5	nS	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

Typical Characteristics

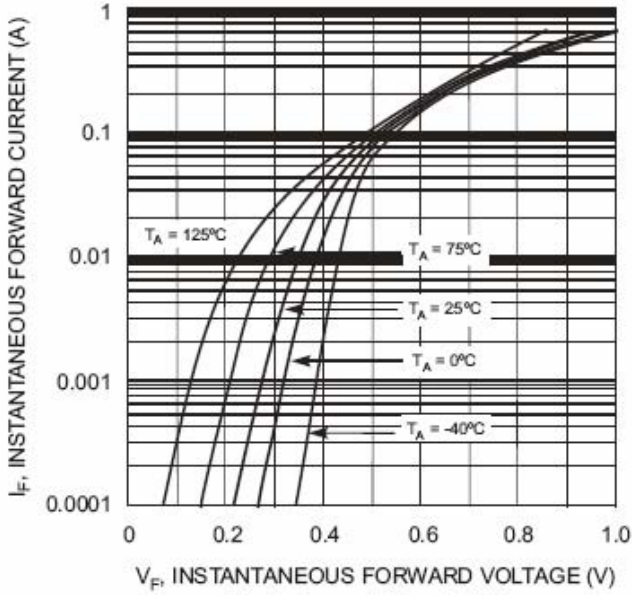


Fig. 1 Forward Characteristics

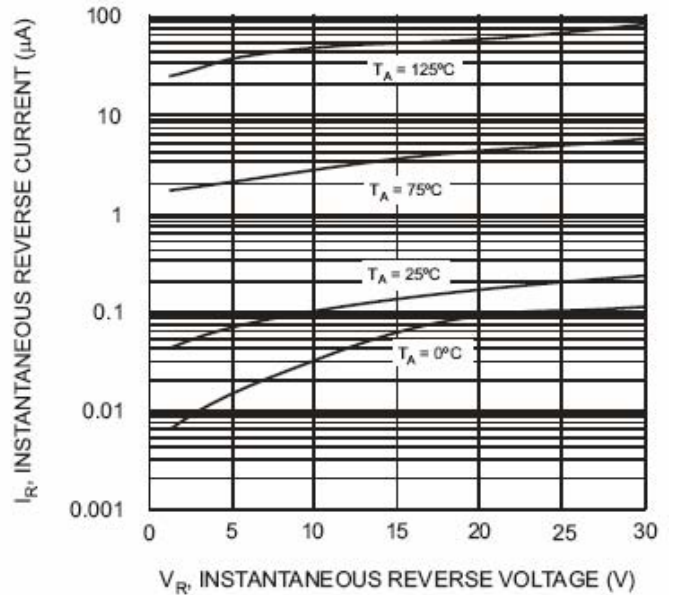


Fig. 2 Typical Reverse Characteristics

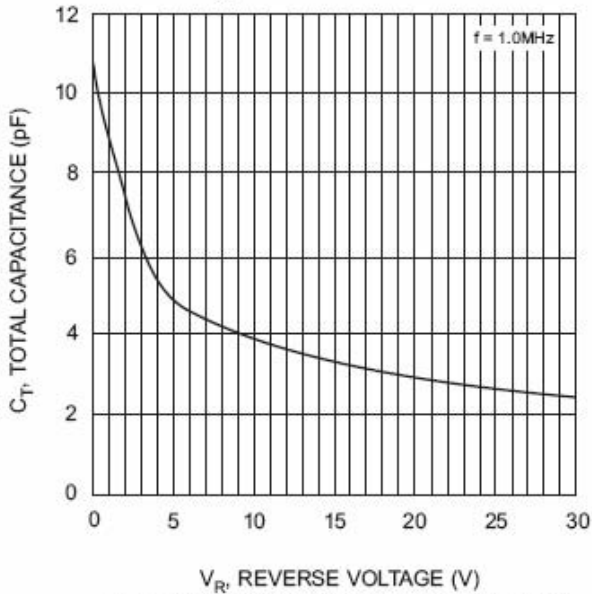


Fig. 3 Typical Capacitance vs. Reverse Voltage

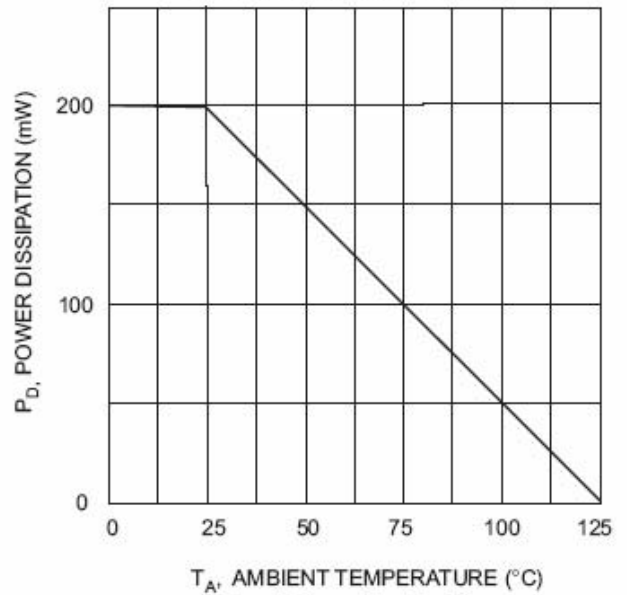


Fig. 4 Power Derating Curve

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