BAT54/A/C/S   SCHOTTKY BARRIER DIODE

SOT-23

3

1

2

1. BASE
2. EMITTER
3. COLLECTOR

FEATURES

- Extremely Fast Switching Speed
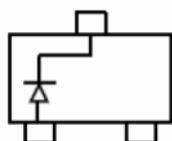
BAT54 MARKING：KL1/D3E   BAT54A MARKING: KL2   BAT54C MARKING: KL3   BAT54S MARKING: KL4
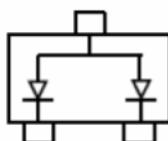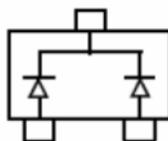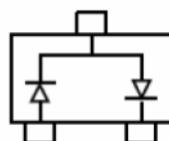
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ t＜1s	I_{FSM}	600	mA
Repetitive Peak Forward Current @ t≤1s, δ≤0.5	I_{FRM}	300	mA
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\Theta JA}$	500	℃/W
Junction Temperature	T_j	125	℃
Storage Temperature	T_{stg}	-55~+150	℃

ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	30			V	I_R=100μA
Forward voltage	V_F			0.24	V	I_{F1}=0.1mA
				0.32	V	I_{F2}=1mA
				0.40	V	I_{F3}=10mA
				0.50	V	I_{F4}=30mA
				1	V	I_{F5}=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}=0.1×I_R,R_L=100Ω

Typical Characteristics

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve
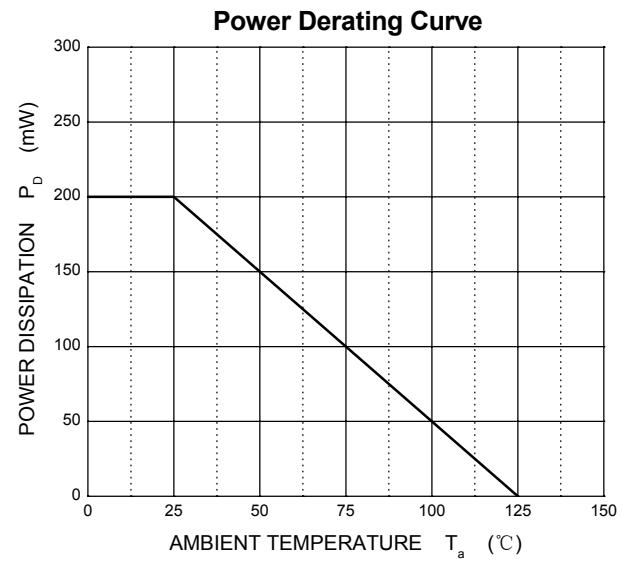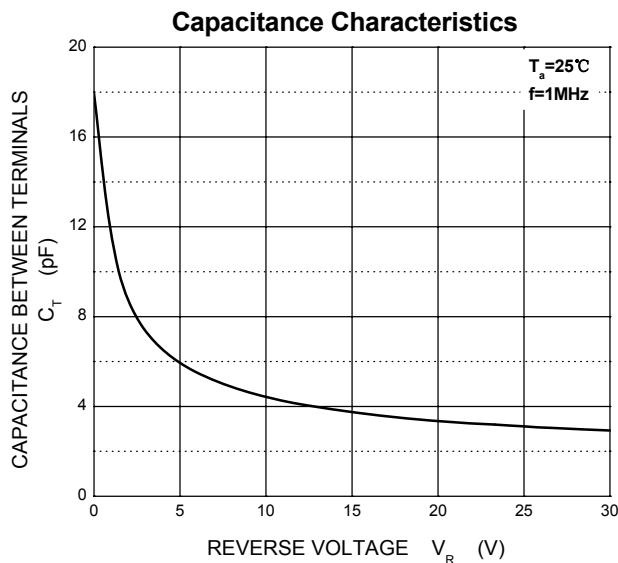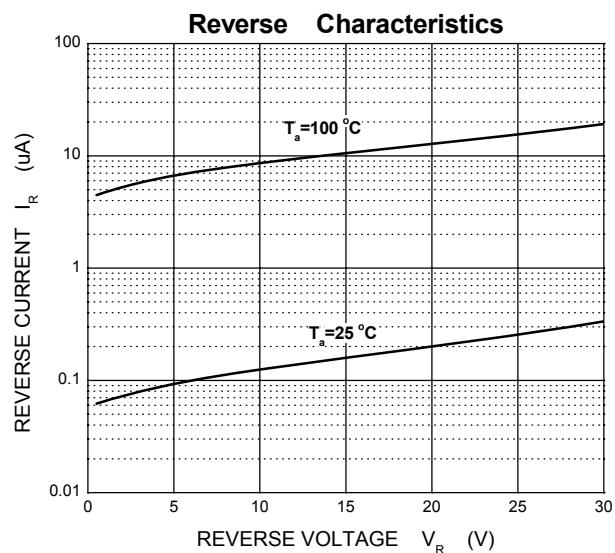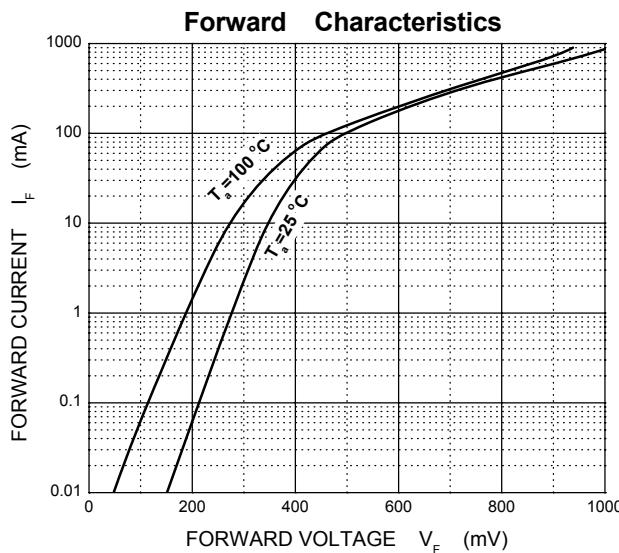
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