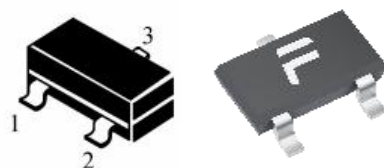
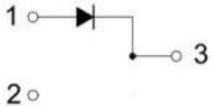
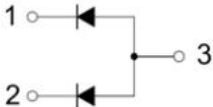
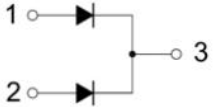
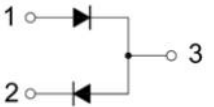


SOT-323 Schottky Barrier Diode 肖特基势垒二极管



Internal Configuration & Device Marking 内部结构与产品打标

Type 型号	BAT54TW	BAT54AW	BAT54CW	BAT54SW
Pin 管脚				
Mark 打标	KL5/L4	KL6/L42	KL7/L43	KL8/L44

Absolute Maximum Ratings 最大额定值

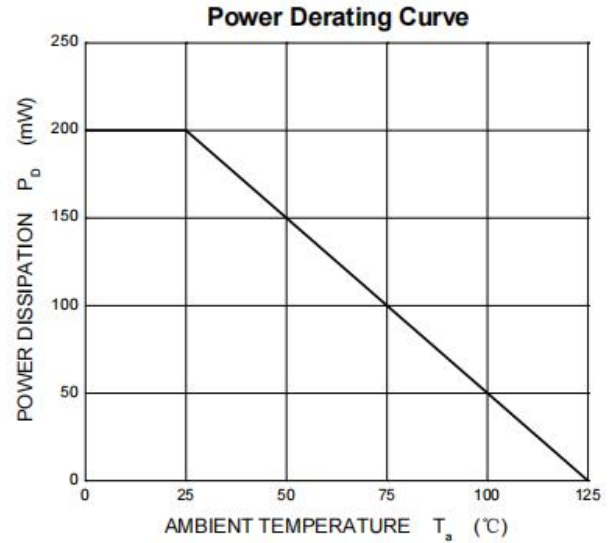
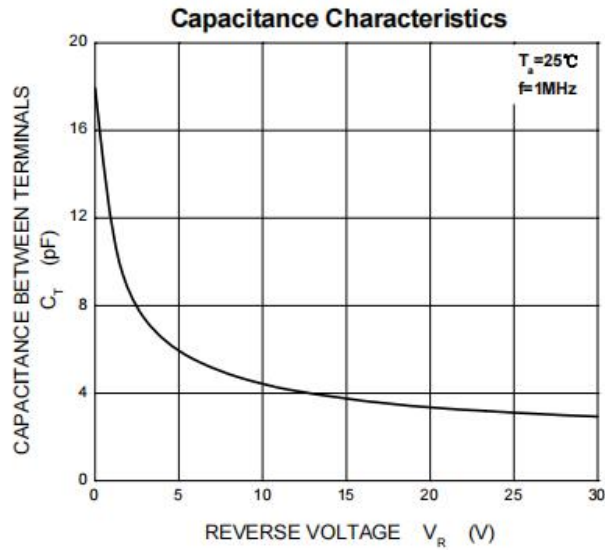
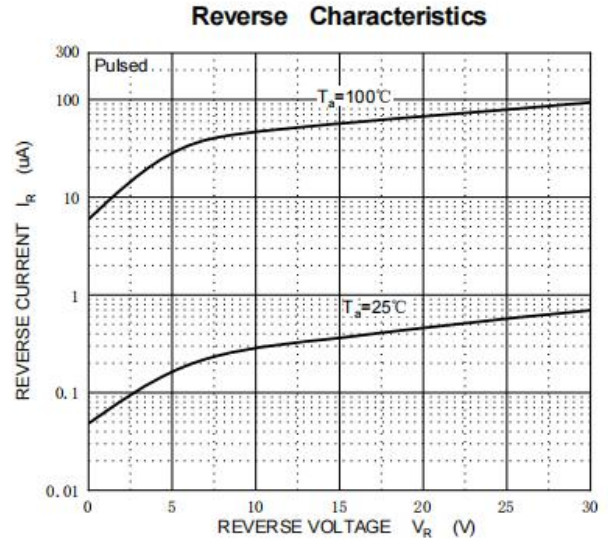
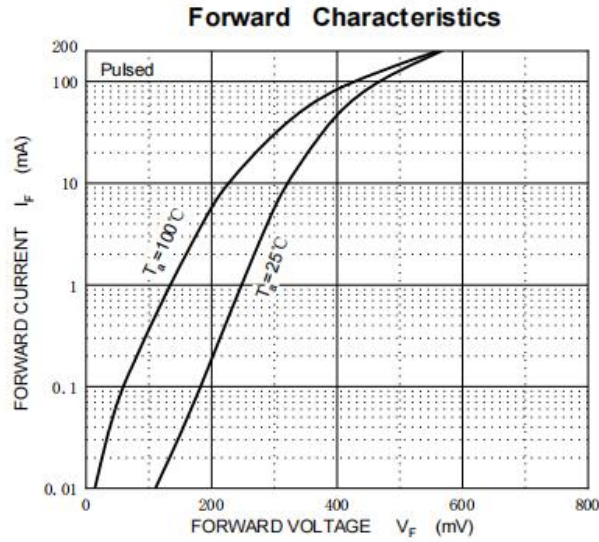
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	30	V
Reverse Work Voltage 反向工作电压	V_{RWM}		
DC Reverse Voltage 直流反向电压	V_R		
Forward Work Current 正向工作电流	$I_F(I_O)$	200	mA
Repetitive Peak Forward Current 重复峰值正向电	I_{FRM}	300	mA
Peak Surge Forward Current 峰值浪涌正向电流	I_{FSM}	600	mA
Power dissipation 耗散功率	$P_D(T_a=25^{\circ}C)$	200	mW
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	500	$^{\circ}C/W$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	125, -55 to +150 $^{\circ}C$	

Electrical Characteristics 电特性

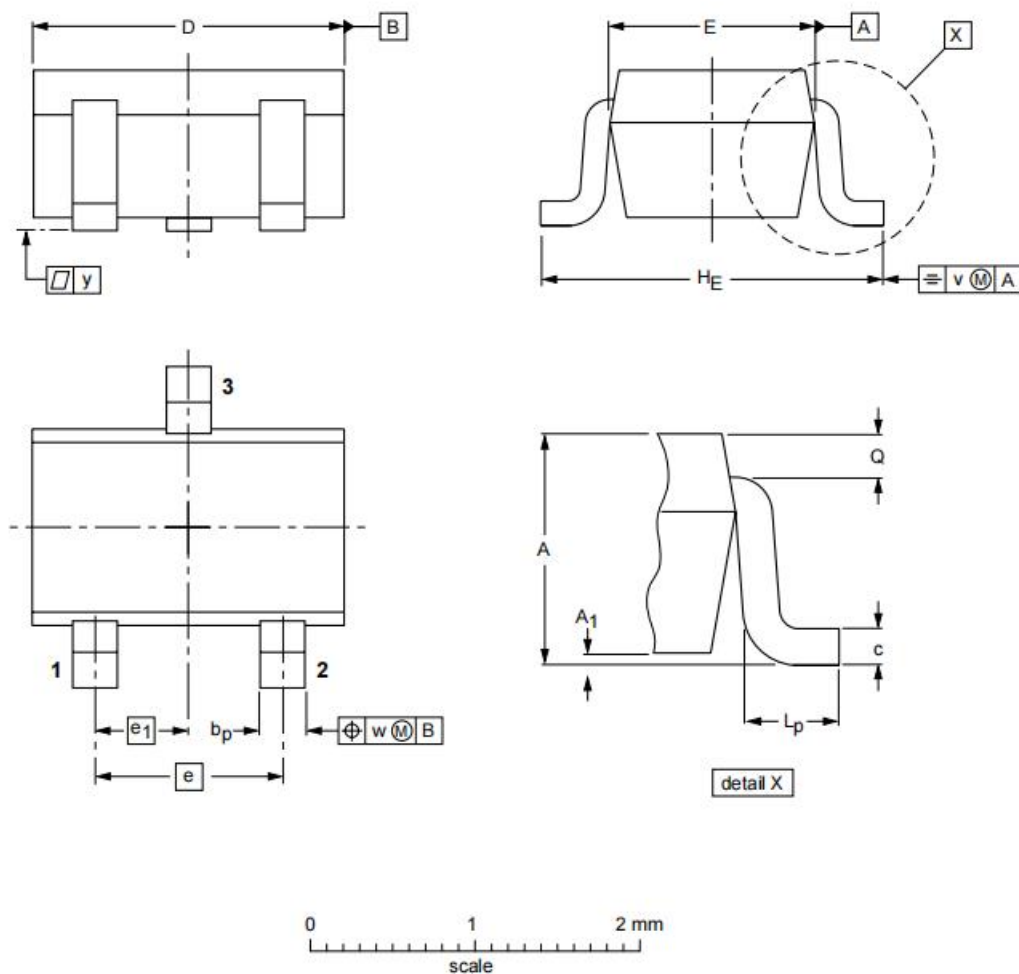
($T_A=25^{\circ}C$ unless otherwise noted 如无特殊说明, 温度为 $25^{\circ}C$)

Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Reverse Breakdown Voltage 反向击穿电压($I_R=100\mu A$)	$V_{(BR)}$	30	—	V
Reverse Leakage Current 反向漏电流($V_R=25V$)	I_R	—	2	μA
Forward Voltage($I_F=0.1mA$) 正向电压($I_F=1mA$) ($I_F=10mA$) ($I_F=30mA$) ($I_F=100mA$)	V_F	—	0.24 0.32 0.4 0.5 1	V
Diode Capacitance 二极管电容($V_R=1V, f=1MHz$)	C_D	—	10	pF
Reverse Recovery Time 反向恢复时间	T_{rr}	—	5	nS

■ Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.8	0.1	0.4 0.3	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.23 0.13	0.2	0.2