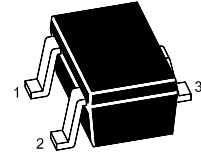
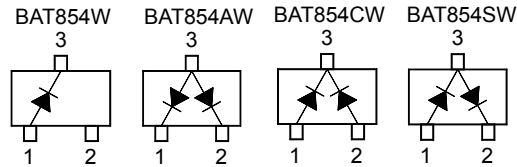


Surface Mount Schottky Barrier Diodes

Features

- Low forward voltage
- Very low reverse current



SOT-323 Plastic Package

BAT854W Marking Code: 53

BAT854AW Marking Code: 54

BAT854CW Marking Code: 55

BAT854SW Marking Code: 56

Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits

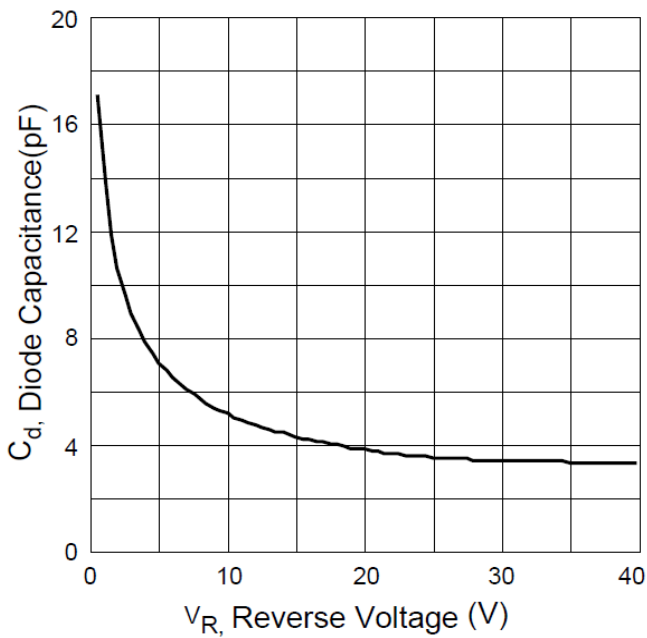
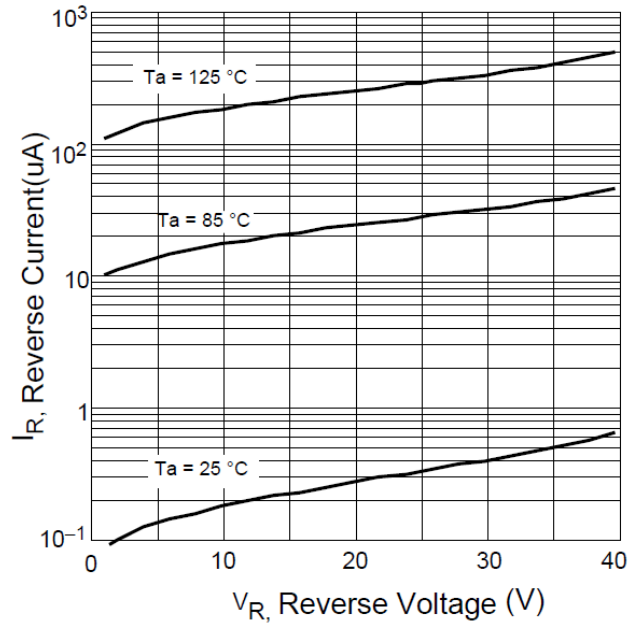
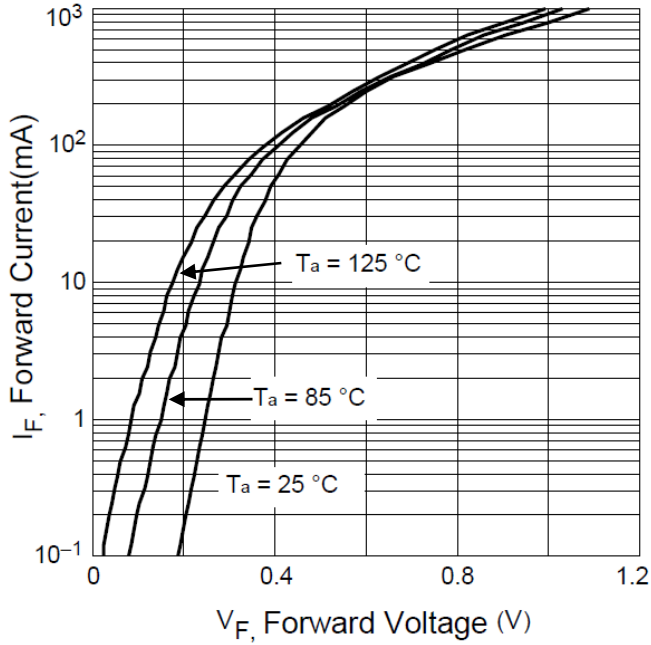
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Forward Current	I_F	200	mA
Repetitive Peak Forward Current ($t_p \leq 1\text{ s}$)	I_{FRM}	300	mA
Peak Forward Surge Current ($t = 8.3\text{ ms}$ half sinewave)	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

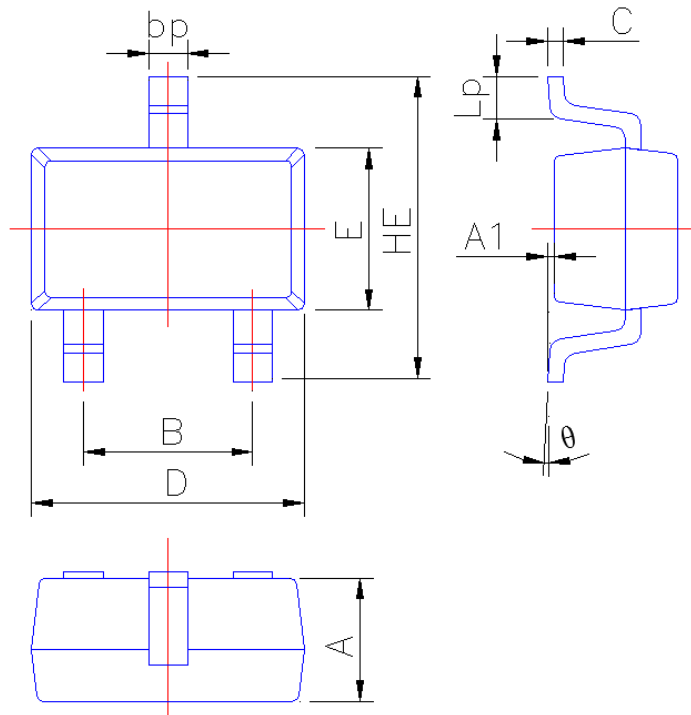
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 30\text{ mA}$ at $I_F = 100\text{ mA}$	V_F	420 550	mV
Reverse Current at $V_R = 25\text{ V}$	I_R	0.8	μA
Total Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_T	20	pF

GRAPHICAL DATA



SOT-323 Package Outline Dimensions



Symbol	Dimension in Millimeters	
	Min	Max
A	0.90	1.00
A1	0.010	0.100
B	1.20	1.40
bp	0.25	0.45
C	0.09	0.15
D	2.00	2.20
E	1.15	1.35
HE	2.15	2.55
Lp	0.25	0.46
θ	0°	6°