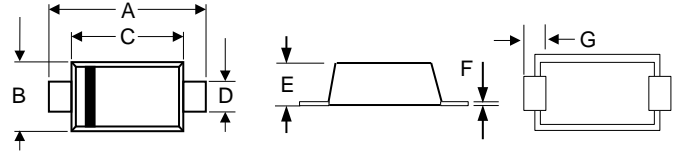


Features

- * Low forward voltage
- * Ultra high-speed switching
- * Voltage clamping
- * Protection circuits
- * Marking Code: "3"



RoHS
COMPLIANT



SOD-523F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.50	1.70
B	0.030	0.033	0.75	0.85
C	0.045	0.049	1.15	1.25
D	0.012	0.016	0.30	0.40
E	0.024	0.028	0.60	0.70
F	0.004	0.005	0.10	0.14

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	30	V
Forward Current	I _F	200	mA
Repetitive Peak Forward Current	I _{FRM}	300	mA
Peak Forward Surge Current (t _p = 10 ms)	I _{FSM}	600	mA
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction Ambient	R _{thJA}	500	K/W
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Min	Max.	Unit
Forward Voltage at I _F = 0.1 mA at I _F = 1 mA at I _F = 10 mA at I _F = 30 mA at I _F = 100 mA	V _F	-	0.24 0.32 0.4 0.5 0.8	V
Reverse Breakdown Voltage at I _R = 10 μA	V _{(BR)R}	30	-	V
Reverse Current at V _R = 25 V	I _R	-	2	μA
Total Capacitance at V _R = 1 V, f = 1 MHz	C _T	-	10	pF
Reverse Recovery Time at I _F = 10 mA, V _R = 6 V, I _R = 10 mA, R _L = 100 Ω	t _{rr}	-	6	ns

Ratings and Characteristic Curves

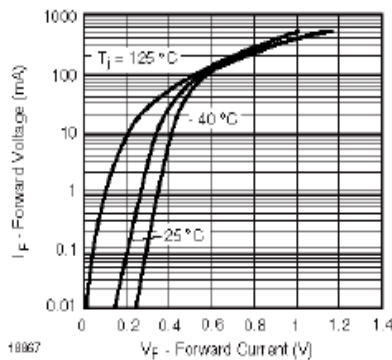


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

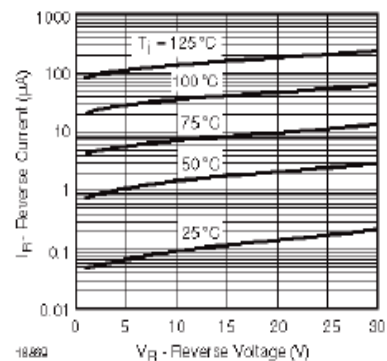


Figure 3. Typical Variation of Reverse Current at Various Temperatures

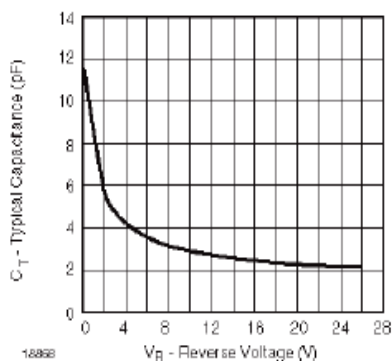


Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage V_R



BAT54WT

Schottky Barrier Diode

Ordering Information

Part No.	Package	Packing Code	Packing
BAT54WT	SOD-523F	R30	3000pcs/Reel

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