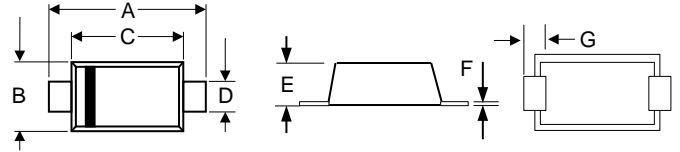


Features

- * 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

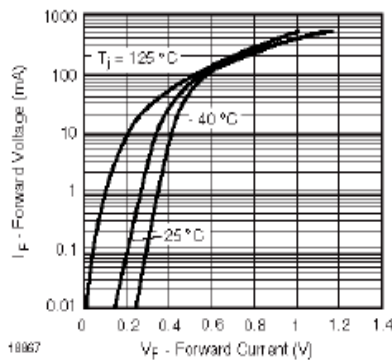


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

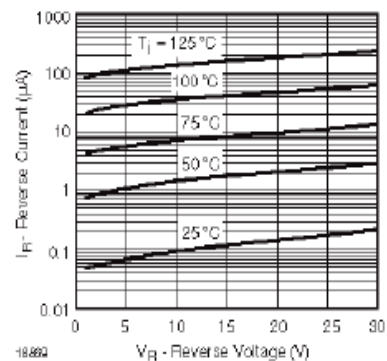


Figure 3. Typical Variation of Reverse Current at Various Temperatures

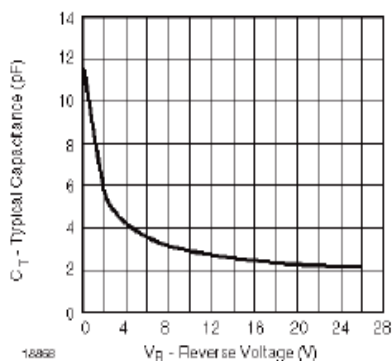


Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage V_R



BAT54WT

Schottky Barrier Diode

Ordering Information

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

Disclaimer

Specifications of the products displayed herein are subject to change without notice. JGD or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in JGD's terms and conditions of sale for such products, JGD assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of JGD products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify JGD for any damages resulting from such improper use or sale.