Small Signal Schottky Rectifier



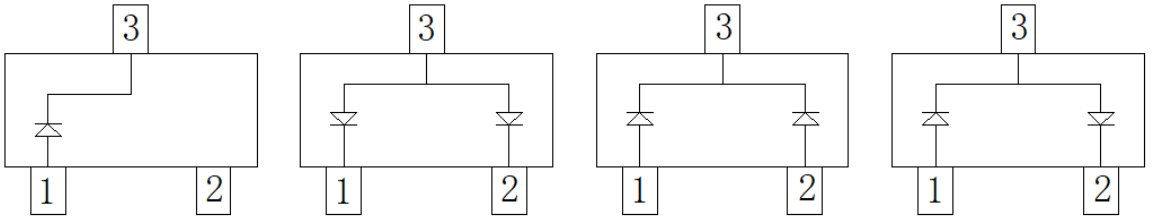
SOT-323

Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- Low Forward Voltage Schottky Rectifier
- VR 30V
- IFAV 0.2A
- Part no. with suffix “Q” means AEC-Q101 qualified

Mechanical Data

- **Case**: SOT-323
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102



BAT54WTQ Marking:KL5 | BAT54AWTQ Marking:KL6 | BAT54CWTQ Marking:KL7 | BAT54SWTQ Marking:KL8

■ **Maximum Ratings** (T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Reverse Voltage	V_R	V		30
Average Forward Current	I_{FAV}	mA		200
Non-repetitive Peak Forward Surge Current	I_{FSM}	A	square wave tp＜10ms	0.6
Power Dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient	R_{thJA}	℃/W		500
Maximum Junction Temperature	T_j	℃		125
Storage Temperature Range	T_{stg}	℃		-55 to +150

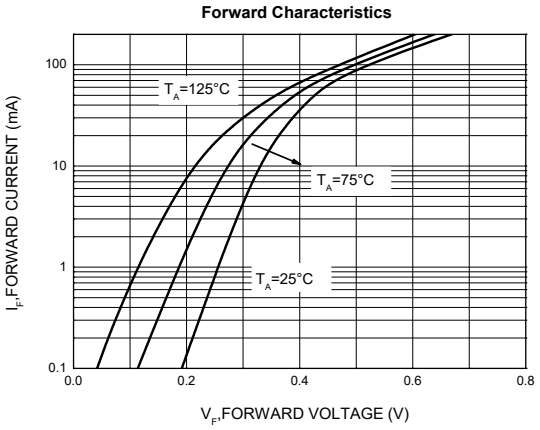
■ Electrical Characteristics（T_a=25℃ Unless otherwise specified）

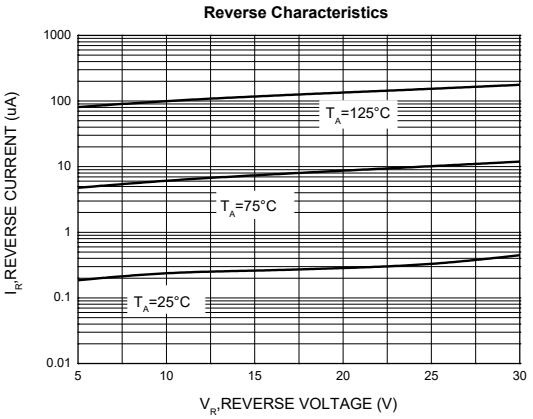
PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	MAX
Forward Voltage	V_F	V	I_F=0.1mA	-	0.24
			I_F=1.0mA	-	0.32
			I_F=10mA	-	0.40
			I_F=30mA	-	0.50
			I_F=100mA	-	1.0
Reverse Current	I_R	μA	V_R=25V	-	2
Junction Capacitance	C_j	pF	V_R=1 V, f =1MH$_Z$	-	10
Reverse Recovery Time	t_{rr}	ns	I_F=I_R=10mA,I_{rr}=1mA,R_L=100Ω	-	5

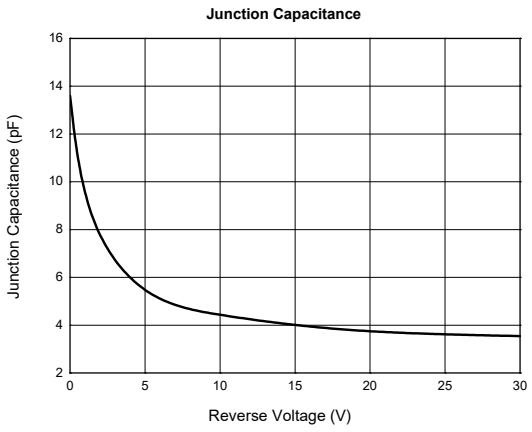
■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54WTQ BAT54AWTQ BAT54CWTQ BAT54SWTQ	F2	Approximate 0.006	3000	30000	120000	7” reel

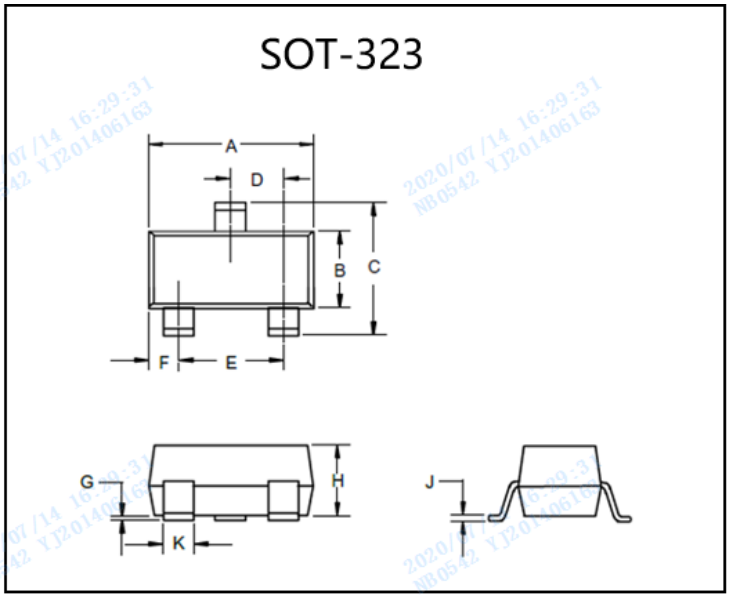
■ Characteristics (Typical)





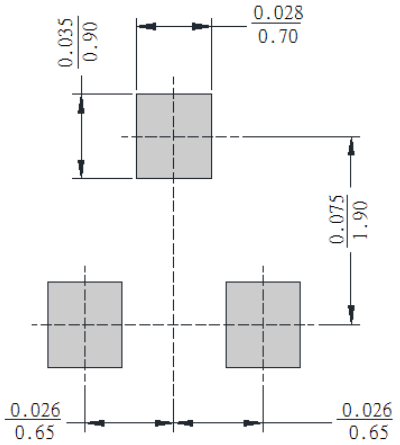


■ Outline Dimensions



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026Nominal		0.65Nominal		
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.039	0.90	1.00	
J	0.004	0.010	0.10	0.250	
K	0.006	0.016	0.15	0.40	

■ Soldering Footprint



Unit：inch / mm

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