



## Small Signal Schottky Rectifier



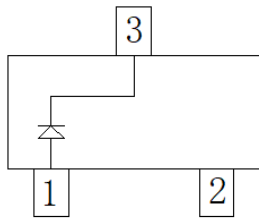
### Features

- 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

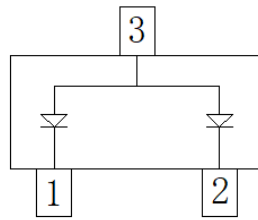
### Mechanical Data

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

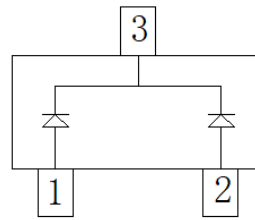
### SOT-323



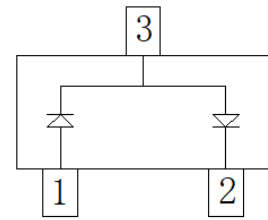
BAT54WTQ  
Marking:KL5



BAT54AWTQ  
Marking:KL6



BAT54CWTQ  
Marking:KL7



BAT54SWTQ  
Marking:KL8

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ 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 $t_p < 10\text{ms}$	0.6
Power Dissipation	$P_D$	mW		200
Thermal Resistance Junction to Ambient	$R_{thJA}$	$^\circ\text{C/W}$		500
Maximum Junction Temperature	$T_j$	$^\circ\text{C}$		125
Storage Temperature Range	$T_{stg}$	$^\circ\text{C}$		-55 to +150



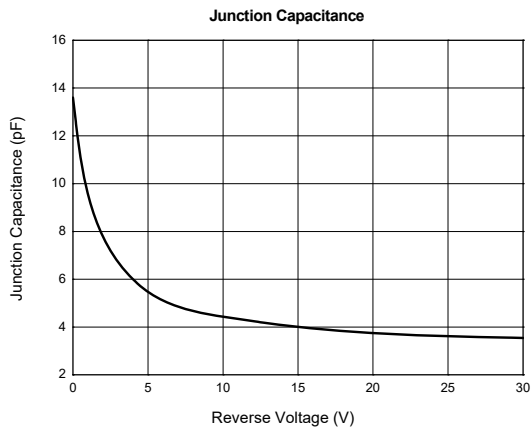
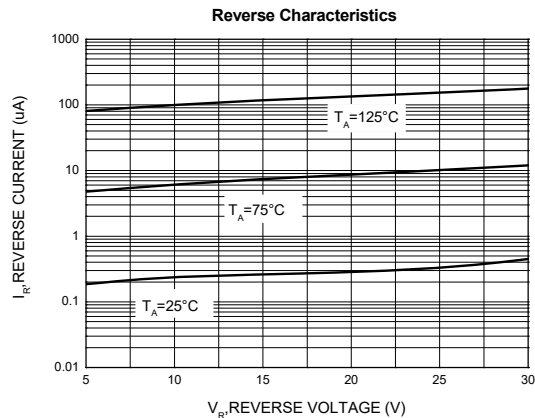
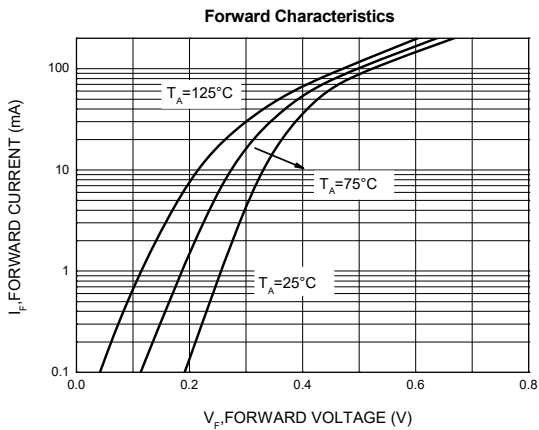
## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	MAX
Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =0.1mA	-	0.24
			I <sub>F</sub> =1.0mA	-	0.32
			I <sub>F</sub> =10mA	-	0.40
			I <sub>F</sub> =30mA	-	0.50
			I <sub>F</sub> =100mA	-	1.0
Reverse Current	I <sub>R</sub>	μA	V <sub>R</sub> =25V	-	2
Junction Capacitance	C <sub>J</sub>	pF	V <sub>R</sub> =1 V, f =1MHz	-	10
Reverse Recovery Time	t <sub>rr</sub>	ns	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>tr</sub> =1mA, R <sub>L</sub> =100Ω	-	5

## ■ Ordering Information (Example)

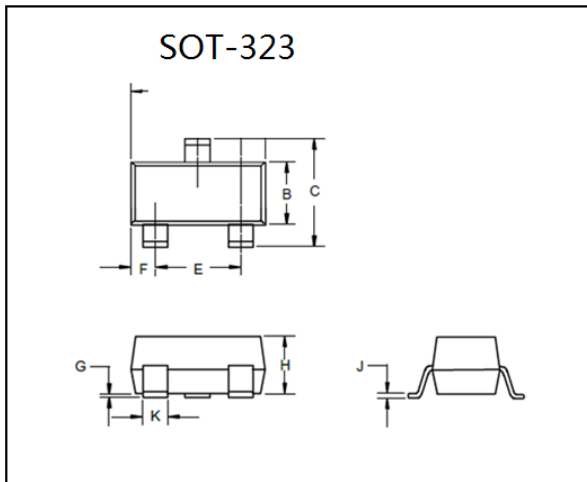
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54WTQ BAT54AWTQ BAT54CWTQ BAT54SWTQ	F2	Approximate 0.006	3000	30000	120000	7" reel

## ■ Characteristics (Typical)



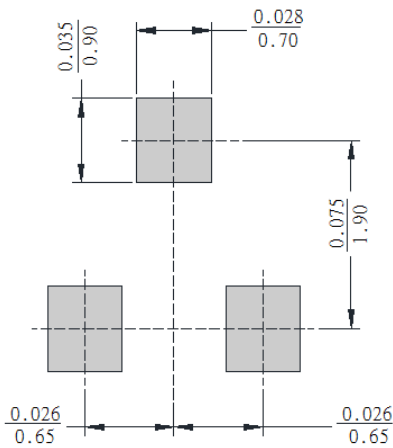


## ■ Outline Dimensions



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:  $\frac{\text{inch}}{\text{mm}}$



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