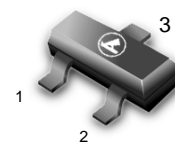
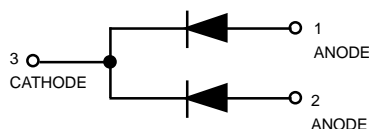


# Schottky Barrier Diodes

## BAT54RCLT1



CASE 318-08, STYLE 9  
SOT-23 (TO-236AB)

### DEVICE MARKING

BAT54RCLT1 = KL3

### MAXIMUM RATINGS

Rating	Symbol	Max	Unit
Reverse Voltage	$V_R$	30	Volts
Forward Power Dissipation @ $T_A = 25^\circ\text{C}$	$P_F$	225	mW
Derate above $25^\circ\text{C}$		1.8	mW/ $^\circ\text{C}$
Forward Current (DC)	$I_F$	200MAX	mA
Operating Junction Temperature Range	$T_J$	120MAX	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^\circ\text{C}$

### SOLDERING CHARACTERISTICS

Characteristic	Symbol	Unit
Solder Heat Resistance	265	$^\circ\text{C}$
Solderability	240 to 265	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Leakage ( $V_R = 25\text{ V}$ )	$I_R$	—	—	2.0	$\mu\text{A}$
Forward Voltage ( $I_F = 0.1\text{ mA}$ )	$V_{F1}$	—	—	0.24	V
Forward Voltage ( $I_F = 1\text{ mA}$ )	$V_{F2}$	—	—	0.32	V
Forward Voltage ( $I_F = 10\text{ mA}$ )	$V_{F3}$	—	—	0.40	V
Forward Voltage ( $I_F = 30\text{ mA}$ )	$V_{F4}$	—	—	0.5	V
Forward Voltage ( $I_F = 100\text{ mA}$ )	$V_F$	—	—	1.0	V
Diode Capacitance ( $V_R = 1\text{ V}$ , $F = 1\text{ MHz}$ )	$C_T$	—	—	10	pF
Reverse Recovery Time	$t_{rr}$	—	—	5.0	ns
Repetitive Peak Forward Current	$I_{FRM}$	—	—	300	mA
Non-Repetitive Peak Forward Current	$I_{FSM}$	—	—	600	mA