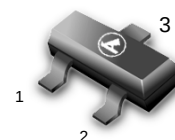
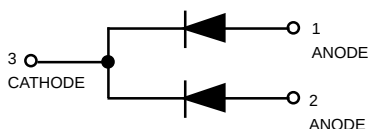


Schottky Barrier Diodes

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°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	μA
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