# Schottky Barrier Diode



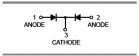


# Applications:

Fast switching speed diode

### Features:

- Extremely Fast Switching Speed
- · Low Forward Voltage
- Power Dissipation PD = 200mW
- Pb-Free Package is Available





Marking Code: KL3

### Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit	
Peak repetitive peak reverse voltage Working peak DC reverse voltage	VRRM VRMS VR	30	V	
Forward Continuous Current	lF	200		
Repetitive Peak Forward Current	IFRM	300	mA	
Forward surge current @tp<1s	IFSM	600		
Power dissipation	Pb	250	mW	
Thermal resistance junction to ambient air	Reja	500	°C/M	
Thermal resistance junction to case	Rejc	360 °C/W		
Junction temperature	T <sub>J</sub>	125	°C	
Operating and storage temperature	Т <sub>і</sub> , Тsтg	-55 to +150	1	

## Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	IR = 100μA	30	-	V
Forward voltage*	VF1	IF = 0.1mA	-	0.24	V
	VF2	IF = 1mA	-	0.32	V
	VF3	IF = 10mA	-	0.4	V
	VF4	IF = 30mA	-	0.5	V
	VF5	IF = 100mA	-	1	V
Reverse current**	lr	VR = 25V	-	2	μA
Diode capacitance	Сп	VR = 1V, f = 1MHz	-	10	pF
Reverse recovery time	trr	IF = IR = 10mA Irr = 0.1 × IR, RL = 100Ω	-	5	ns

<sup>\*</sup>pulse test, tp≤300µs

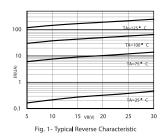
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

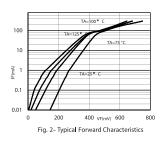


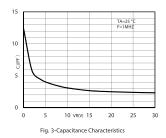
<sup>\*\*</sup>pulse test, tp≤5ms

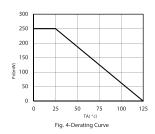
# Schottky Barrier Diode multicomp PRO

## Typical Characteristics @ TA = 25°C unless otherwise specified

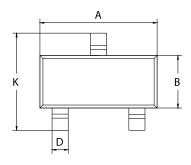


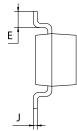


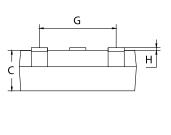




## **Package Outline Dimensions**



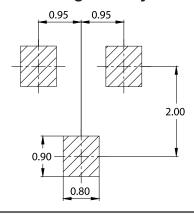




Dim.	Min.	Max.
Α	2.7	3.1
В	1.1	1.5
С	0.9	1.1
D	0.3	0.5
E	0.35	0.48

Dim.	Min.	Max.
G	1.8	2
Н	0.02	0.1
J	0.05	0.15
K	2.2	2.6

### **Mounting Pad Layout**



Dimensions: Millimetres

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# Schottky Barrier Diode



### **Part Number Table**

Description	Part Number
Schottky Barrier Diode	BAT54C-7-F

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Page <3> 26/11/21 V1.1