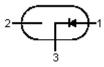
Low Power Schottky Diode multicomp





Features:

- · Very low turn-on voltage and ultra-fast switching diodes, suitable for UHF detectors and other high frequency switching circuits
- · Supplied on 8mm tape



Pin Configuration

1 = Anode

2 = NC

3 = Cathode

Absolute Maximum Ratings:

Description	Symbol		Values	Unit
Continuous reverse voltage	VR	Max.	30	V
Forward current	lF	IVIAX.	200	mA
Forward voltage at I _F = 10mA	VF	<	400	mV
Total Power dissipation up to Tamb = 25°C	Ptot	Max.	230	mW
Reverse recovery time when switched from IF = 10mA to IR = 10mA; RL = 100W; measured at IR = 1mA	trr	<	5	ns
Junction temperature	Tj	Max.	125	°C

Ratings (at $T_A = +25^{\circ}C$ unless otherwise specified)

Description	Symbol		Values	Unit
Continuous reverse voltage	VR	Max.	30	V
Forward current (DC)	lF	ividX.	200	mA
Forward voltage at I _F = 10mA	VF	<	400	mV
Reverse recovery time when switched from IF = 10mA to IR = 10mA; RL = 100W; measured at IR = 1mA	trr	<	5	ns
Junction temperature	Tj	Max.	125	°C
Total power dissipation up to Tamb = 25°C	Ptot	Max.	230	mW
Storage temperature	Tstg	-55°C to +150°C		0
Junction temperature	Tj	Max.	125	°C
Thermal Resistance				
From junction to ambient; mounted on a ceramic substrate of 10mm × 8mm × 0.6mm	Rth (j–a)	=	430	K/W



Low Power Schottky Diode multicomp

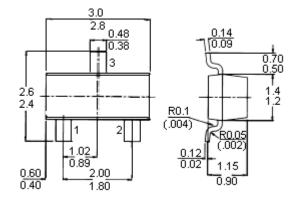


Characteristics Tamb = 25°C unless otherwise specified

Description	Symbol		Values	Unit
Forward voltage IF = 0.1mA IF = 1mA* IF = 10mA IF = 30mA* IF = 100mA	VF	Max. Max. Max. Max. Typ. Max.	240 320 400 500 500 1,000	mV
Reverse current V _R = 25V	lR	<	2	μΑ
Reverse breakdown voltage	V(BR)R	>	30	V
Diode capacitance V _R = 1V; f = 1MHz	Cd	<	15	pF
Reverse recovery time when switched from IF = 10mA to IR = 10mA; RL = 100W; measured at IR = 1mA	trr	<	5	ns

^{*} Temperature coefficient of forward voltage:

^{-0.3%} K at IF = 30mA



Height	Width	Depth
1.12mm	3.05mm	2.5mm

Dimensions: Millimetres

Dimensions: Millimetres

Part Number Table

Description	Connection	V _{RRM} Max (V)	IF Max (mA)	V _F Max. (V) at I _F = 10mA	Device Marking	Package	Part Number
Diode, Schottky, SOT-23	Single Diode	30	300	0.4	4L	SOT - 23	TBAT54

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.





^{-0.6%} K at I_F = 1mA