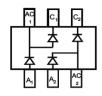
# Surface Mount Schottky Barrier Diode





#### Features:

- · Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring For Transient and ESD Protection
- · Available in Lead Free Version



SOT-363

#### **Applications:**

High speed switching application

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

Parameter		Symbol	Value	Unit
Repetitive peak reverse voltage Working peak reverse voltage DC reverse voltage		Vrrm Vrms Vr	30	V
Forward continuous current		lF	200	mA
Repetitive peak forward current		IFRM	300	mA
Forward surge current	@t<1.0s	Іғѕм	0.6	А
Power dissipation		PD	200	mW
Thermal resistance, junction to ambient		Rөja	625	°C/W
Junction and storage temperature		T <sub>j</sub> , Tstg	-65 to +150	°C

## Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)R	IR = 100μA	30	-	V
Average reverse current	l <sub>R</sub>	V <sub>R</sub> = 25V	-	2	μA
Forward voltage	VF	IF = 0.1mA IF = 1mA IF = 10mA IF = 30mA IF = 100mA	-	240 320 400 500 1,000	mV
Total capacitance	Ст	V <sub>R</sub> = 1V, f=1MHz	-	10	pF
Reverse recovery time	trr	IF = IR = $10$ mA, RL = $100$ Ω	-	5	ns

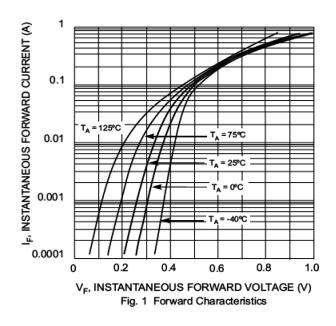
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

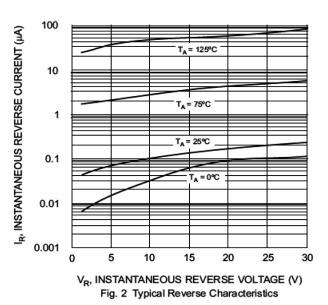


# Surface Mount Schottky Barrier Diode

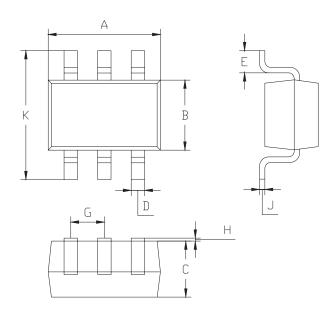
# multicomp PRO

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





### Plastic surface mounted package



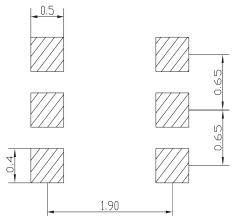
SOT-363			
Dim	Min	Max	
Α	1.8	2.2	
В	1.15	1.35	
С	1.0Typical		
D	0.1	0.3	
E	0.25	0.4	
G	0.65Typical		
Н	0.02	0.1	
J	0.1Typical		
K	2.1	2.3	
All Dimensions in mm			

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# Surface Mount Schottky Barrier Diode



#### **Soldering Footprint**



#### Package Information

Device	Package	Shipping
BAT54BRW-7-F	SOD-363	3,000 / Tape & Reel

Unit: mm

#### **Part Number Table**

Description	Part Number	
Surface Mount Schottky Barrier Diode	BAT54BRW-7-F	

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