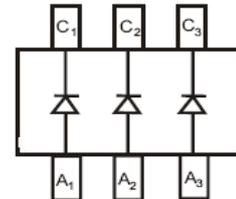
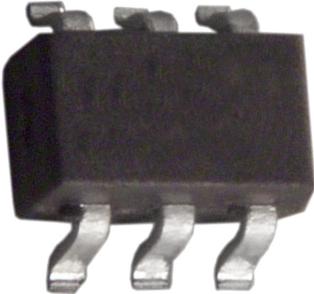


Surface Mount Schottky Barrier Diode

multicomp^{PRO}



SOT-363

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

Applications:

- High Speed Switching Application

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristics	Symbol	Value	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RWM} V_R	30	V
Forward continuous current	I_F	200	mA
Repetitive peak forward current	I_{FRM}	300	mA
Forward surge current at $t < 1s$	I_{FSM}	0.6	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	625	°C/W
Storage temperature	T_J, T_{STG}	-65 to +125	°C

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

multicomp^{PRO}

Surface Mount Schottky Barrier Diode

multicomp PRO

Electrical Characteristics:

Ratings at 25°C unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	30	-	V	$I_R=100\mu A$
Average reverse current	I_R	-	2	μA	$V_R=25V$
Forward voltage	V_F	-	0.24 0.32 0.4 0.5 1	V	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Total Capacitance	C_T	-	10	pF	$V_R=1V, f=1MHz$
Reverse Recovery time	t_{rr}	-	5	nS	$I_F=I_R=10mA, R_L=100\Omega$

Typical Characteristics:

$T_A = 25^\circ C$ unless otherwise specified

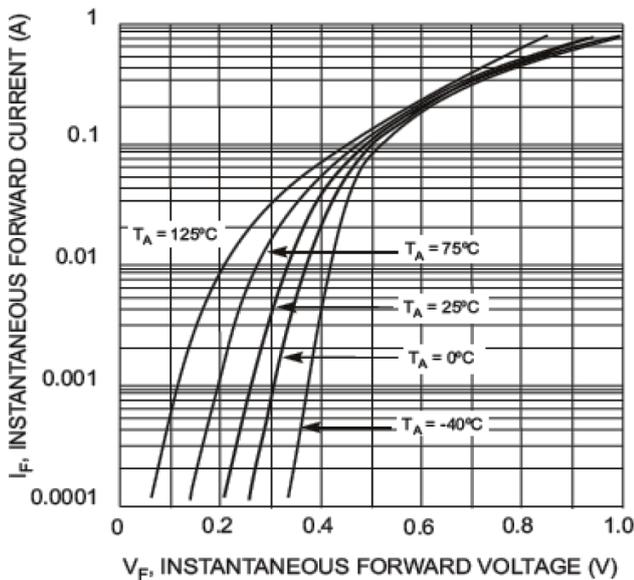


Fig. 1 Forward Characteristics

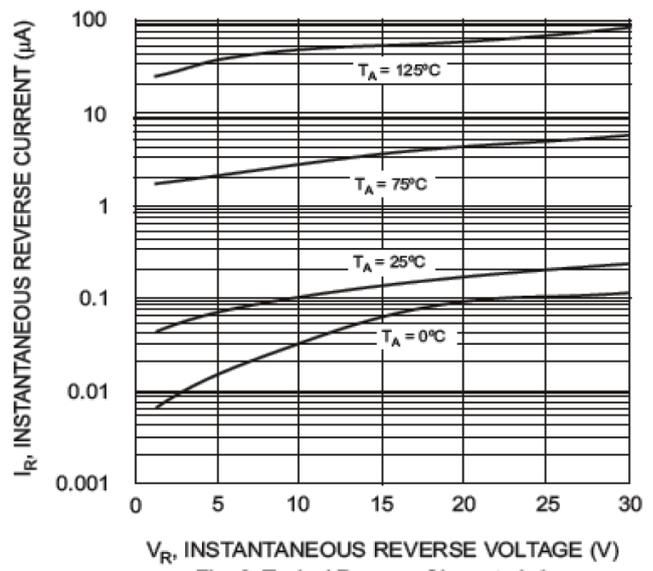


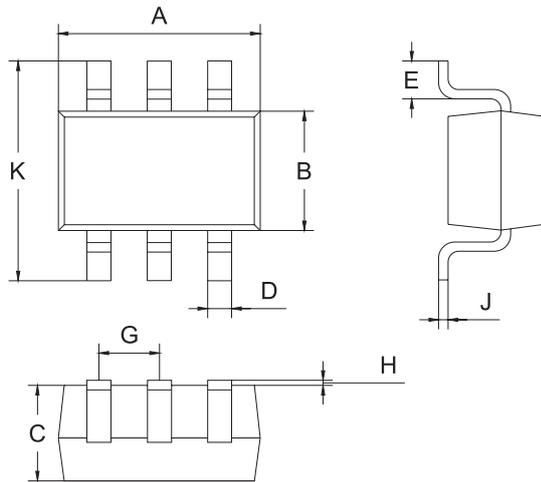
Fig. 2 Typical Reverse Characteristics

Surface Mount Schottky Barrier Diode

multicomp PRO

Package Outline:

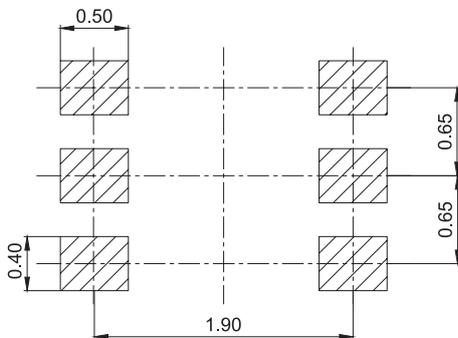
Plastic surface mounted package



SOT-363		
Dim.	Min.	Max.
A	2	2.2
B	1.55	1.35
C	0.95 Typ.	
D	0.25 Typ.	
E	0.25	0.4
G	0.6	0.7
H	0.02	0.1
J	0.1 Typ.	
K	2.2	2.4

Dimensions : Millimetres

Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BAT54TW-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Schottky Barrier Diode	BAT54TW-7-F

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET 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 Pro is the registered trademark of Premier Farnell Limited 2019.

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

multicomp PRO