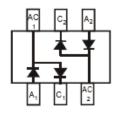


BAS40TW-7-F



BAS40DW-04-7-F

JACTODII OT I

### Fast Switching

Low Forward Voltage Drop

Features:

- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection

SOT-363

### **Maximum Ratings:**

Ratings at 25°C unless otherwise specified.

Characteristics	Symbol	Value	Unit	
RMS reverse voltage	VR(RMS)	28	V	
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	Vrrm Vrwm Vr	40	V	
Forward continuous current	Іғм	200	mA	
Average rectified output current	lo	1	А	
Non-repetitive peak forward surge current at t <1µs	IFSM	0.6 1	А	
Power dissipation	Po	200	mW	
Thermal resistance junction to ambient	Reja	625	°C/W	
Storage temperature	Тj, Tsтg	-55 to +150	°C	



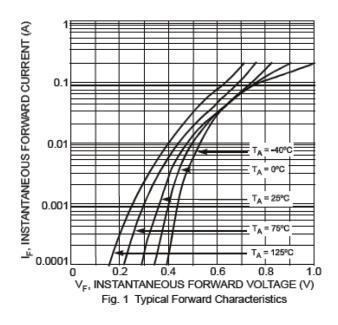
#### **Electrical Characteristics:**

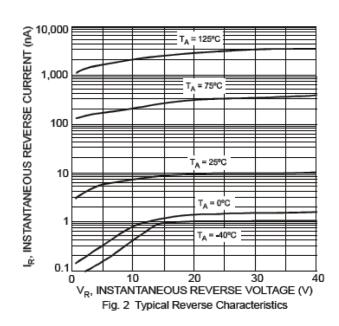
Ratings at 25°C unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	V(BR)R	40	ı	<b>V</b>	Ir=10μA
Forward voltage	VF	-	0.38 1	>	I==1mA I==40mA
Reverse current	lr	-	200	nA	V <sub>R</sub> =30V
Total capacitance	Ст	-	5	pF	V <sub>R</sub> =0V, f=1MHz
Reverse recovery time	Trr	-	5	nS	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>II</sub> =0.1 × I <sub>R</sub> ,R <sub>L</sub> =100Ω

### **Typical Characteristics:**

T<sub>A</sub> = 25°C unless otherwise specified

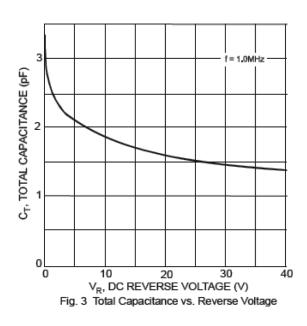


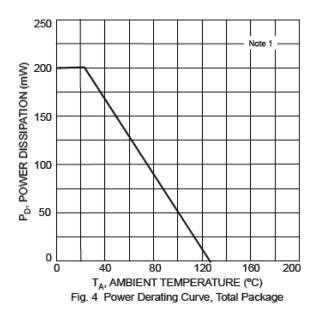


Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro



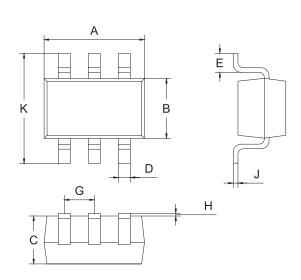






#### Package Outline:

Plastic surface mounted package



SOT-363				
Dim.	Min.	Max.		
А	2	2.2		
В	1.55	1.35		
С	0.95 Typ.			
D	0.25 Typ.			
E	0.25	0.4		
G	0.6	0.7		
Н	0.02	0.1		
J	0.1 Typ.			
K	2.2	2.4		

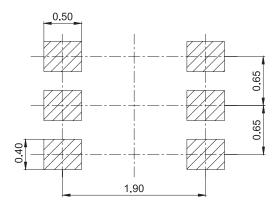
Dimensions: Millimetres

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





#### **Soldering Footprint:**



**Dimensions: Millimetres** 

### **Package Information:**

Device	Package	Shipping
BAS40TW-7-F & BAS40DW-04-7-F	SOT-363	3,000 / Tape & Reel

#### **Part Number Table**

Description	Part Number	
Curfose Mount Cohettle, Derrier Diede	BAS40TW-7-F	
Surface Mount Schottky Barrier Diode	BAS40DW-04-7-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

