

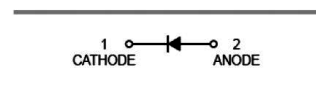
Schottky Barrier Diode

multicompPRO



Features:

- Low Forward Drop Voltage
- Fast Switching
- Ultra-Small Surface Mount Package
- Available In Lead Free Version



SOD-323

Applications:

Schottky barrier detector and switching diodes

Max. Rating @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak DC reverse voltage	V _{RRM} V _{RMS} V _R	30	V
RMS reverse voltage	V _{R(RMS)}	21	V
Forward continuous current	I _{FM}	200	mA
Repetitive peak forward current @ t < 1s	I _{FRM}	500	mA
Peak Forward Surge Current @ <10ms	I _{FSM}	4	A
Power dissipation	P _D	200	mW
Thermal resistance, junction to ambient	R _{θJA}	625	°C/W
Junction temperature	T _j	125	°C
Storage temperature range	T _{STG}	-55 to +125	°C

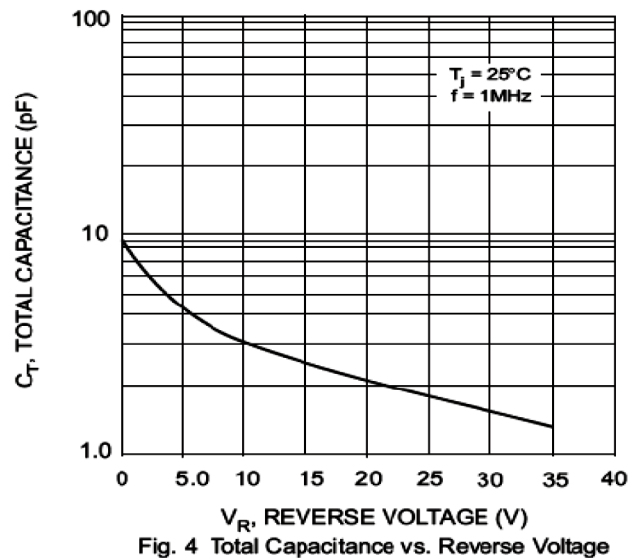
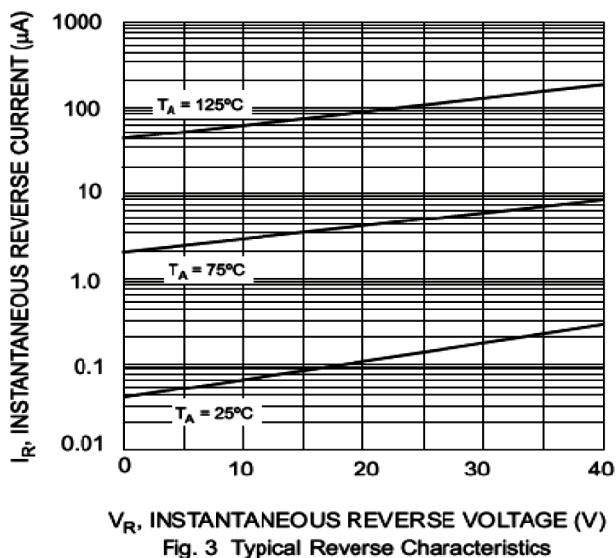
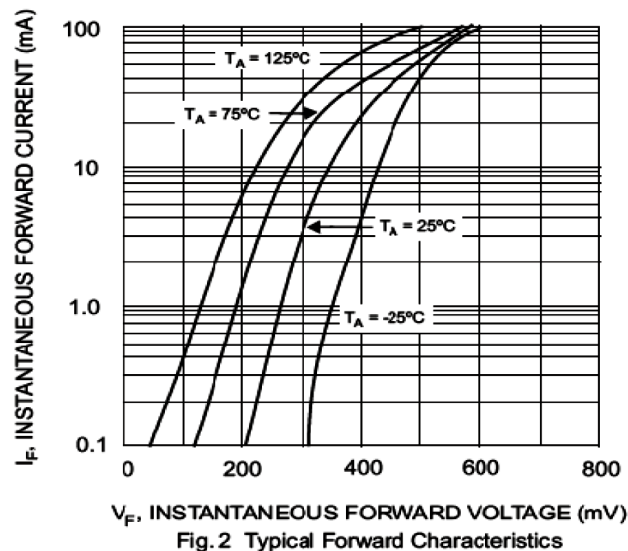
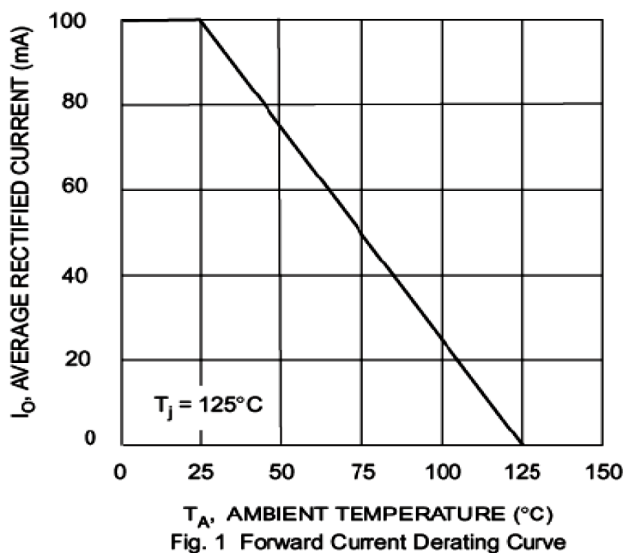
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V _{(BR)R}	I _R = 100μA	30	-	V
Forward voltage All types BAT42W BAT42W BAT43W BAT43W	V _F	I _F = 200mA	-	1	V
	V _F	I _F = 10mA	-	0.4	V
	V _F	I _F = 50mA	-	0.65	V
	V _F	I _F = 2mA	-	0.33	V
	V _F	I _F = 15mA	-	0.45	V
Reverse current	I _R	V _R = 25V	-	0.5	μA
Reverse recovery time	t _{rr}	I _F = 10mA, I _R = 10mA R _L = 100Ω	-	5	ns
Capacitance between terminals	C _T	V _R = 1V, f = 1MHz	-	10	pF

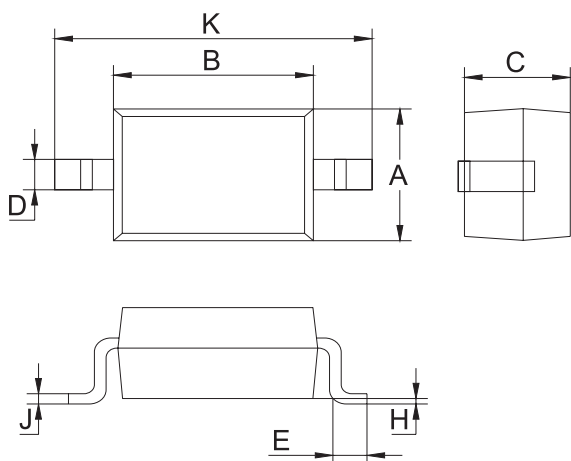
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

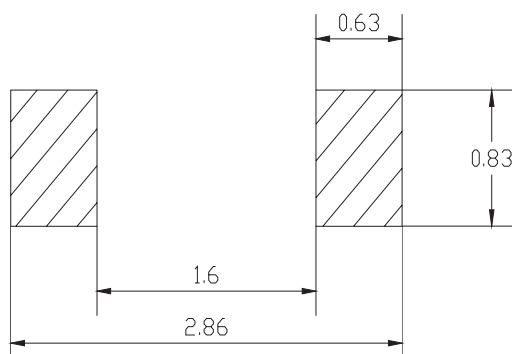


Plastic surface mounted package



SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
BAT43WS-7-F	SOD-323	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Schottky Barrier Diode	BAT43WS-7-F

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