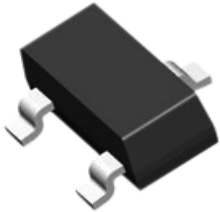


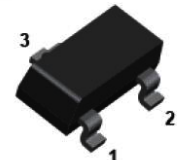
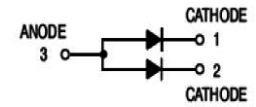
Surface Mount Switching Diode

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Features:

- For High-Speed Switching Applications
- Common Anode



SOT-23

Applications:

High speed switching application

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

Parameter	Symbol	Limits	Unit
Non-repetitive peak reverse voltage	V _{RM}	100	V
Peak repetitive reverse voltage	V _{RRM}	75	V
Working peak reverse voltage	V _{RMS}		
DC reverse voltage	V _R		
Forward continuous current	I _F	300	mA
Non-repetitive forward surge current	I _{FSM}	2	A
@t = 1ms		1	
@t = 1s			
Power dissipation	P _D	350	mW
Thermal resistance junction to ambient air	R _{θJA}	357	°C/W
Operating junction temperature range	T _j	150	°C
Storage temperature range	T _{STG}	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V _{(BR)R}	I _R = 2.5μA	75	-	V
Forward voltage	V _F	I _F = 1mA I _F = 10mA I _F = 50mA I _F = 150mA	-	715 855 1,000 1,250	V
Reverse leakage current	I _R	V _R = 75V V _R = 20V	-	2.5 25	μA nA
Diode capacitance	C _D	V _r = 0V, f = 1MHz	-	2	pF
Reverse recovery time	t _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 × I _R , R _L = 100Ω	-	4	ns

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Element14.com/multicomp-pro

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Surface Mount Switching Diode

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

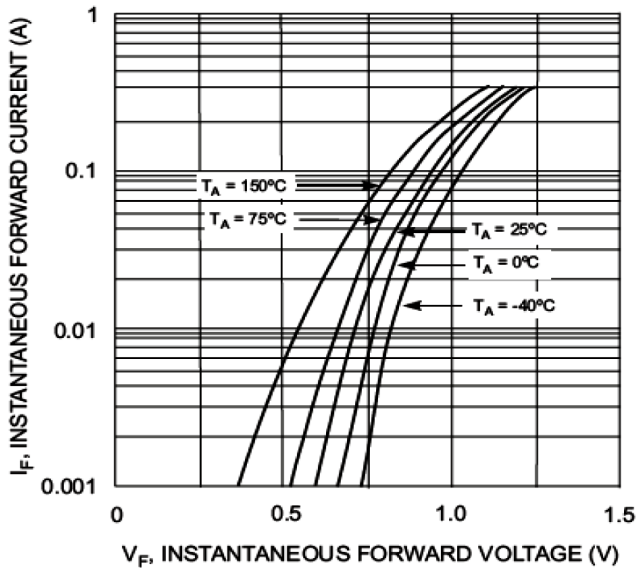


Fig. 1 Forward Characteristics

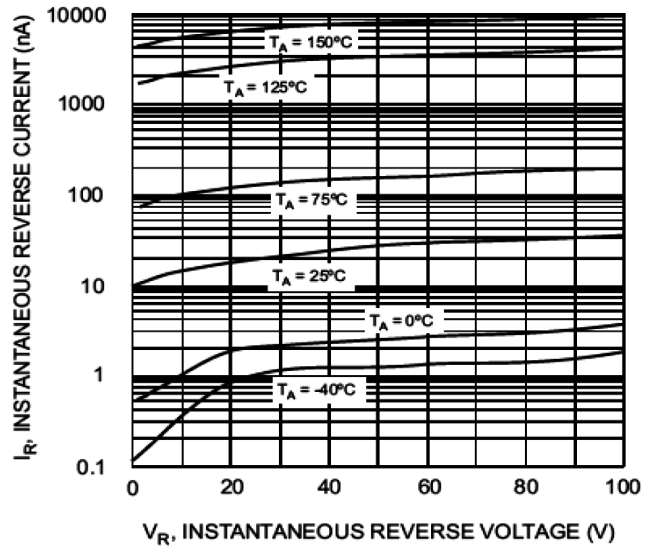


Fig. 2 Typical Reverse Characteristics

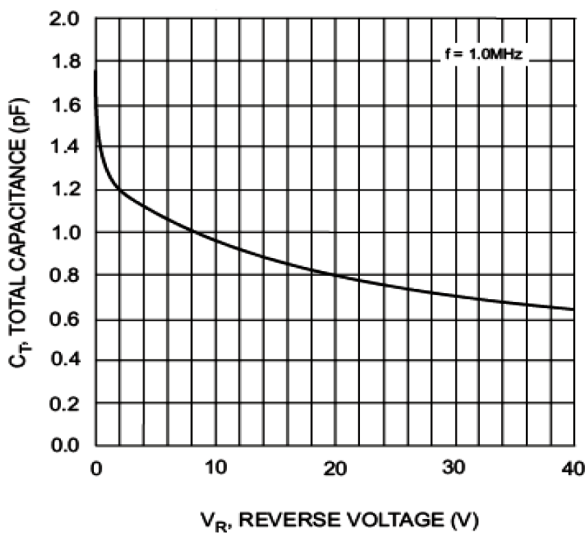


Fig. 3 Typical Capacitance vs. Reverse Voltage

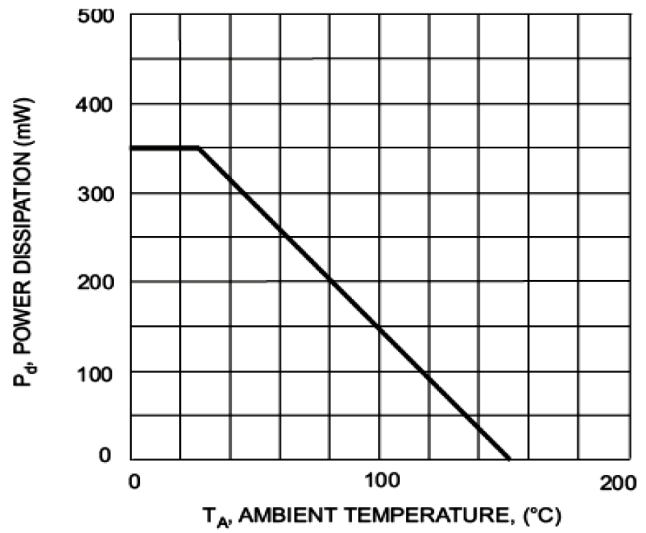
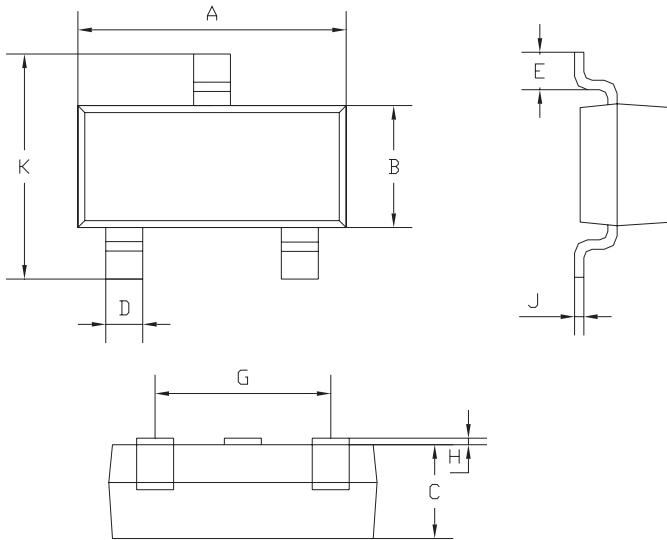


Fig. 4 Power Derating Curve, total package

Surface Mount Switching Diode

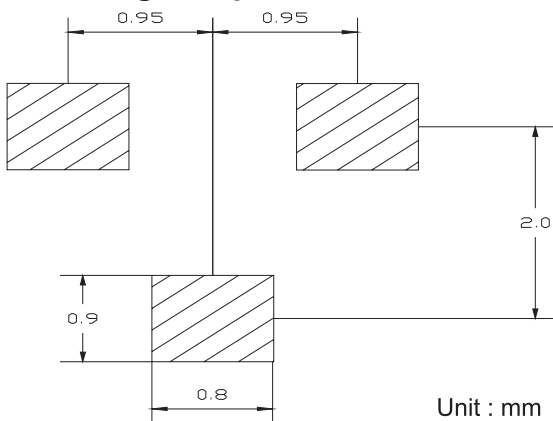
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Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45
All Dimensions in mm		

Soldering Footprint



Package Information

Device	Package	Shipping
BAW56-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface mount switching diode	BAW56-7-F

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