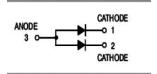
Surface Mount Switching Diode





Features:

- For High-Speed Switching Applications
- Common Anode





Applications:

High speed switching application

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

Parameter	Symbol	Limits	Unit
Non-repetitive peak reverse voltage	VRM	100	V
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	VRRM VRMS VR	75	V
Forward continuous current	lF	300	mA
Non-repetitive forward surge current @t = 1ms @t = 1s	IFSM	2 1	А
Power dissipation	Po	350	mW
Thermal resistance junction to ambient air	R _{θJA}	357	°C/W
Operating junction temperature range	Тј	150	°C
Storage temperature range	Тѕтс	-65 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)R	IR = 2.5µA	75	-	V
Forward voltage	Vf	IF = 1mA IF = 10mA IF = 50mA IF = 150mA	-	715 855 1,000 1,250	V
Reverse leakage current	lR	V _R = 75V V _R = 20V	-	2.5 25	μA nA
Diode capacitance	Сп	Vr =0V, f=1MHz	-	2	pF
Reverse recovery time	trr	I _F = I _R = 10mA, Irr = 0.1 × I _R , R _L = 100Ω	-	4	ns

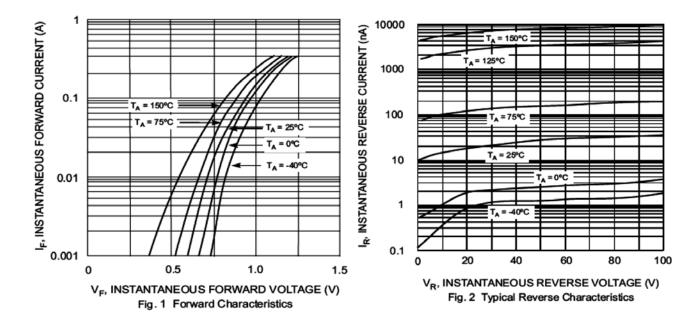
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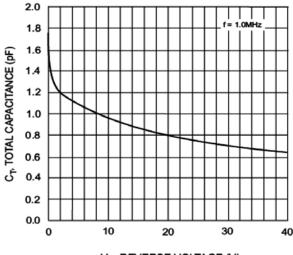


Surface Mount Switching Diode



Typical Characteristics @ TA = 25°C unless otherwise specified





V_R, REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance vs. Reverse Voltage

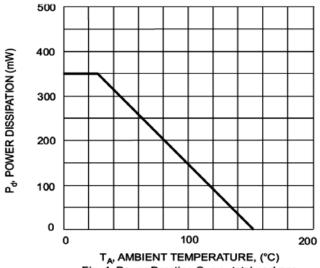
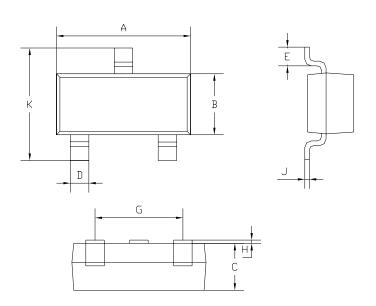


Fig. 4 Power Derating Curve, total package

Surface Mount Switching Diode

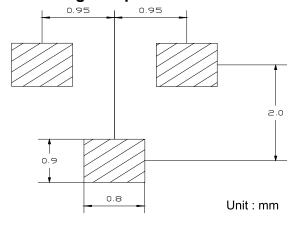


Plastic surface mounted package



SOT-23		
Dim	Min	Max
Α	2.85	2.95
В	1.25	1.35
С	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
Н	0.02	0.1
J	0.1Typical	
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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