Small Signal Diode





Features

RoHS Compliant

- Fast switching speed
- · Surface mount package ideally suited for automatic insertion
- · For general purpose switching applications
- · High conductance

Mechanical Data

Case : SOT-23, moulded plastic

Terminals : Solderable per MIIL-STD-202, Method 208

Polarity : See diagram

Marking : A7

Weight : 0.008 g (approximately)

Maximum Ratings T_A = 25°C unless otherwise specified

Characteristic	Symbol	Values	Units	
Reverse Voltage	VR	75	V	
Forward Current	lF	200	А	
Peak Forward Surge Current	IFM (surge)	M (surge) 500 mA		
Power Dissipation	PD	225	mW	
Thermal Resistance Junction to Ambient Air	Reja	556	°C/W	
Junction Temperature	TJ	150 °C		
Storage Temperature Range	Тѕтс	-55 to 150		

Electrical Characteristics

С	haracteristic	Symbol	Minimum	Maximum	Units
Reverse Breakdown Voltage I _R = 100μA		VR	75	-	
Forward Voltage	IF = 1.0 mA IF = 10 mA IF = 50 mA IF = 150 mA	VF	-	0.715 0.855 1 1.25	V
Reverse Current	V _R = 25V V _R = 75V	lr	-	30 2	nΑ μΑ
Capacitance between	en Terminals V _R = 0, f = 1MHz	Сı	-	1.5	pF
Reverse Recovery	Time (Note 1)	t _{rr}	-	6	nS

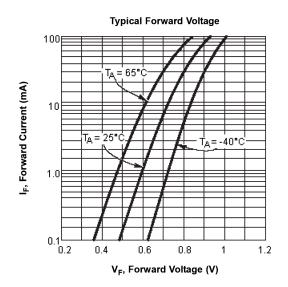
Note 1: Reverse recovery test conditions : IF = IR = 10mA, Irr = $0.1 \times IR$, RL = 100Ω

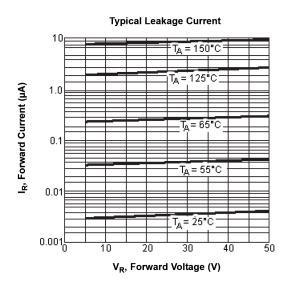


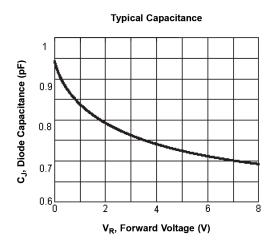
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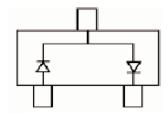
Ratings and Characteristic Curves







Connection Diagram

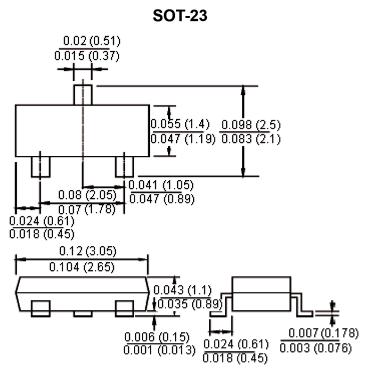




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Dimension:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Diode, Dual, Small Signal, 75V, SOT23	BAV99+	

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