

## **FAST SWITHING DIODES**

#### **Features**

- · Fast switching speed
- · Surface mount package ideally suited for automatic

#### insertion

- · For general purpose switching applications
- · High conductance
- · RoHS compliant package

#### **Mechanical Data**

- · Case: Molded plastic body
- · Terminals: Plated leads solderable per MIL-STD-750,

#### Method 2026

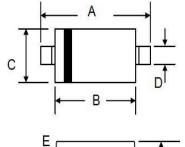
- · Polarity: Polarity symbols marked on case
- · Marking:T6, T4

### **Packing & Order Information**

3,000/Box



RoHS COMPLIANT



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' J			

SOD-323			
Dim	Min	Max	
Α	2.30	2.75	
В	1.60	1.80	
C	1.15	1.35	
D	0.25	0.40	
E	0.09	0.18	
G	0.20	0.40	
Н	0.80	1.00	
J	0.—0	0.12	

### **Graphic symbol**



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @TA=25°C					
Parameter	Symbol	Limits	Unit		
Peak repetitive peak reverse voltage	$V_{RRM}$				
Working peak	$V_{RWM}$	75	V		
DC Blocking voltage	$V_R$				
RMS Reverse voltage	V <sub>R(RMS)</sub>	53	V		
Forward continuous current	I <sub>FM</sub>	300	mA		
Average rectified output current	Io	150	mA		
Peak forward current @=1.0us		2.0			
@=1.0s	I <sub>FSM</sub>	1.0	А		
Power dissipation	P <sub>D</sub>	400	mW		
Thermal resistance junction to ambient	R <sub>QJA</sub>	625	K/W		
Junction temperature	Tj	125	°C		
Storage temperature	T <sub>STG</sub>	-65 to +150	°C		
Non-Repetitive peak reverse voltage	V <sub>RM</sub>	100	V		



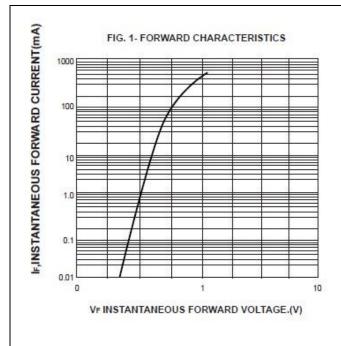
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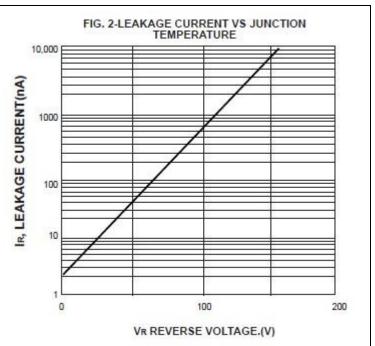
Maximum ratings and electrical characteristics, Single diode @TA=25°C						
Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Froward voltage	IF=1.0mA	V <sub>F1</sub>			0.72	V
	IF=10mA	V <sub>F2</sub>			0.85	V
	IF=50mA	V <sub>F3</sub>			1	mA
	IF=150mA	V <sub>F4</sub>			1.25	mA
Reverse current	VR=75V	I <sub>R1</sub>			1	mW
	VR=20V	I <sub>R2</sub>			25	
Capacitance between terminals	VR=0V,f=1.0MHz	Ст			2	°C
Reverse recovery time	IF=IR=10mA	T <sub>RR</sub>			4	°C
	Irr=0.1XIR,RL=100					



## **FAST SWITHING DIODES**

■RATINGS AND CHARACTERISTIC CURVES 1N4148WS







### **FAST SWITHING DIODES**

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