



SURFACE MOUNT SWITCHING DIODE

Features

- · Fast Switching Speed
- Surface Mount Package Ideally Suited for
- Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Pb-Free package is available

Mechanical Data

• Case: SOD-123, Molded Plastic

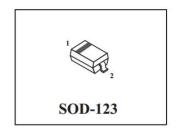
• Terminals: Solderable per MIL-STD-202,Method 208

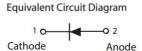
· Polarity: Cathode Band

• Marking: 51M

• Weight: 0.01 grams (approx.)

Maximum Ratings @ TA = 25C unless otherwise specified





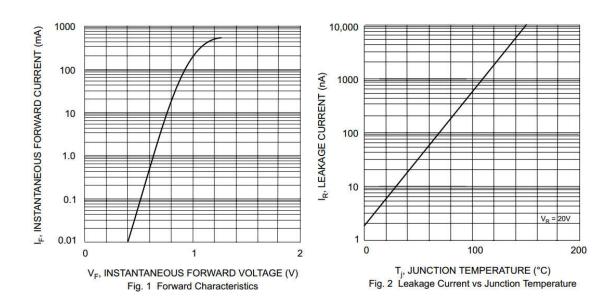
Characteristic	Symbol		Unit V	
Non-Repetitive Peak Reverse Voltage	V _{RM}	100		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V	
RMS Reverse Voltage	V _{R(RMS)}	53	٧	
Forward Continuous Current (Note 1)	I _{FM}			
Average Rectified Output Current (Note 1)	lo	150	mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs @ t = 1.0s	I _{FSM}	2.0 1.0	Α	
Power Dissipation (Note 1)	P _d	350	mW	
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	357	K/W	
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150	°C	

Electrical Characteristics @ TA = 25C unless otherwise specified

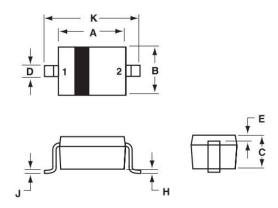
Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V _{FM}		0.715 0.855 1.0 1.25	V	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Maximum Peak Reverse Current	I _{RM}	á r— á	2.5 50 30 25	μΑ μΑ μΑ nA	V _R = 75V V _R = 75V, T _j = 150°C V _R = 25V, T _j = 150°C V _R = 20V
Junction Capacitance	Cj	-	2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	-	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

Notes: 1. Valid provided that terminals are kept at ambient temperature.





SOD-123 Outline Dimensions



SOD-123 Dim Min Max A 2.55 2.85 B 1.40 1.80 C 0.95 1.35 D 0.50 0.70 0.30 REF E H 0.10 -J 0.15

Unit:mm

3.85

3.55 PIN 1. CATHODE 2. ANODE

K

REV.08 2 of 2

单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)