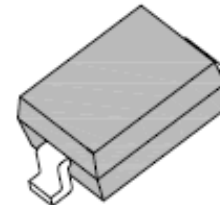


Two Terminals Schottky Barrier Diode

Features

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC
- High conductor
- RoHS compliant



SOD-123



Mechanical Data

Case:	SOD-123, Molded plastic body
Terminals:	Solderable per MIL-STD-202, Method 208
Polarity:	Color band denotes the cathode end
Weight:	0.0104 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

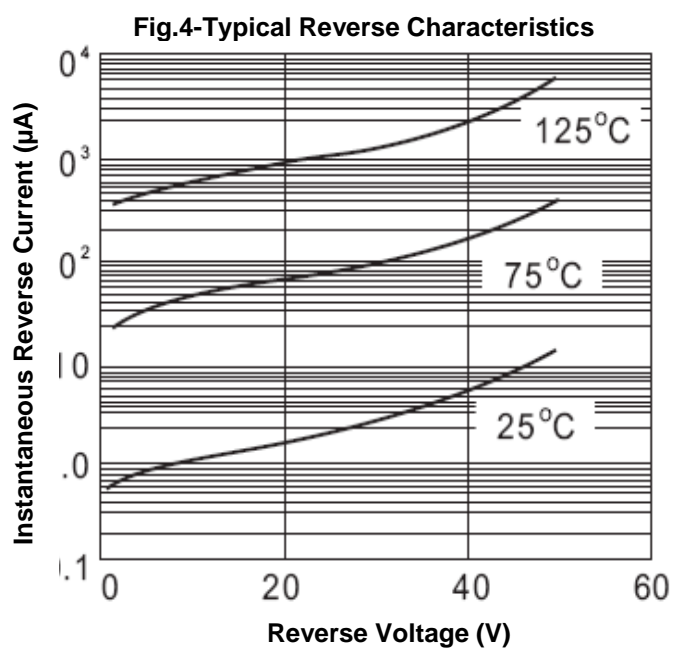
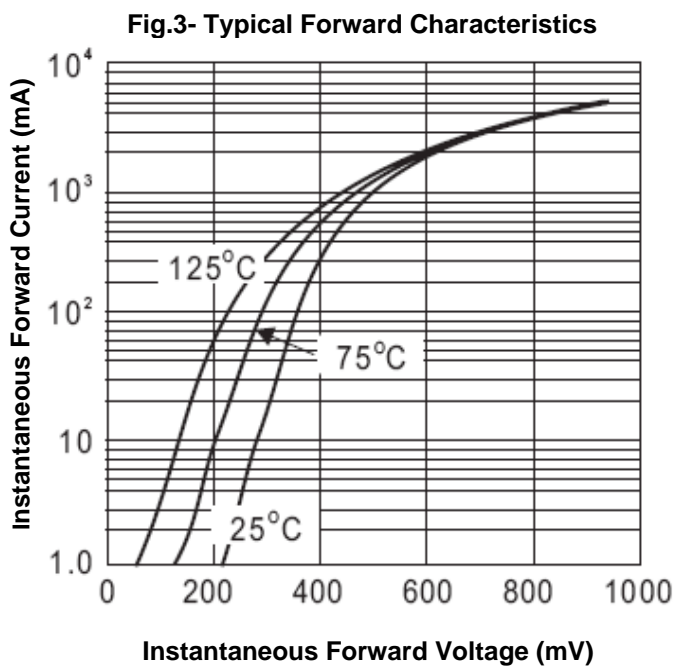
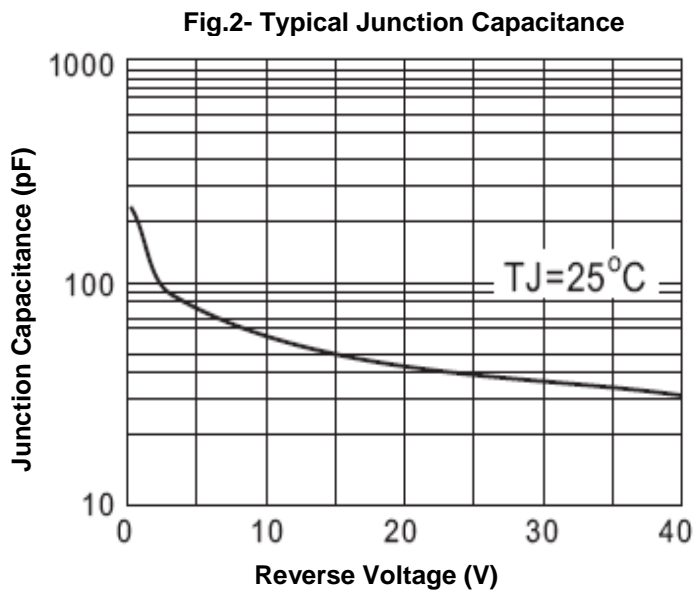
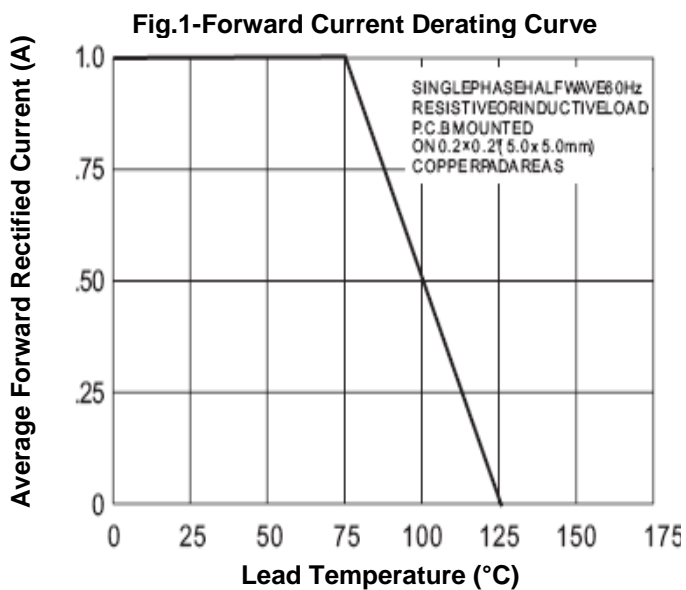
Symbol	Description	TSD14W	Unit	Conditions
	Marking Code	G5		
V_R	Max. Reverse Voltage	40	V	
V_{RRM}	Max. Peak Reverse Voltage	40	V	
I_{F(AV)}	Max. Forward Average Rectified Current	1.0	A	T _L =75° C
I_{FSM}	Non-repetitive Peak Forward Surge Current	30	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_{BR}	Reverse Breakdown Voltage	40 Min.	V	I _R =500μA
V_F	Max. Forward Voltage	0.55	V	I _F =1.0A
I_R	Repetitive Peak Reverse Current	500	μA	V _R =40V
C_T	Diode Capacitance	230	pF	V _R =0V, f=1MHz
R_{thJA}	Typical Thermal Resistance from Junction to Ambient	325	° C/W	
T_J	Junction Temperature	125	° C	
T_{STG}	Storage Temperature Range	-55 to +150	° C	

Two Terminals Schottky Barrier Diode

TSD14W

Note: Mounted with minimum recommended pad size, PC Board FR4.

Typical Characteristics Curves

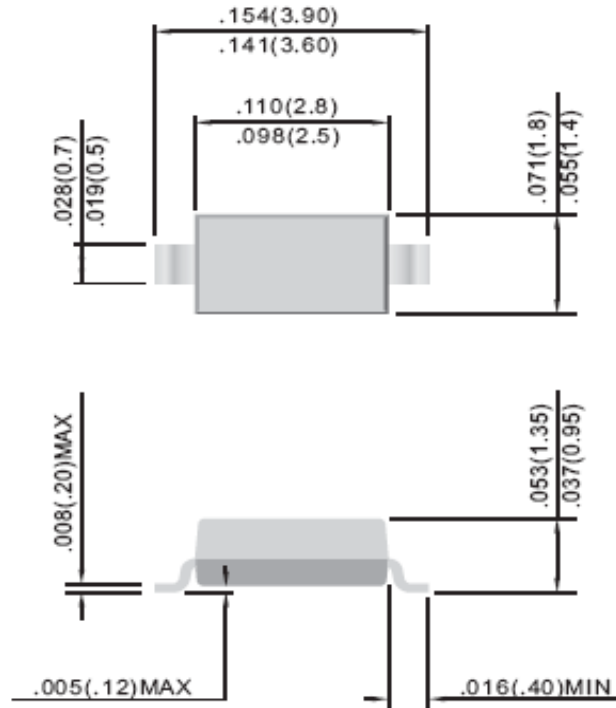


Two Terminals Schottky Barrier Diode

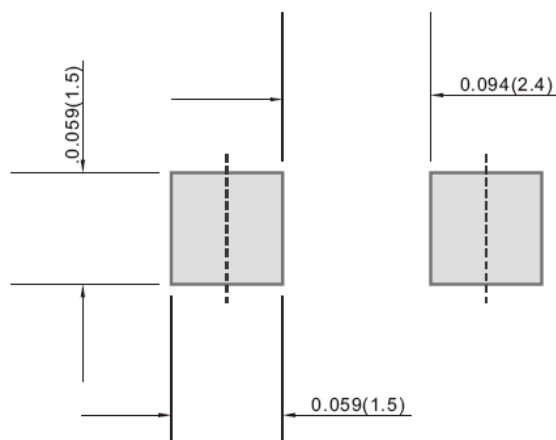
TSD14W

Dimensions in inch (mm)

SOD-123



Mounting Pad Layout in inch (mm)



Two Terminals Schottky Barrier Diode

TSD14W

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931