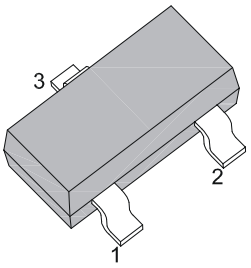
Three Terminals SMD Switching Diode

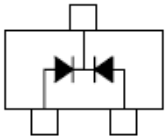
Features

- Silicon Epitaxial Planar Diode
- Fast Switching Dual Diode with Common Cathode
- RoHS Compliant



SOT-23

RoHS Compliant



Mechanical Data

Case:	SOT-23, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	Approx. 0.008 gram

Maximum Ratings* *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description		BAV70	Unit	Conditions
	Marking Code		A4/JA		
V_{RRM}	Maximum Repetitive Reverse Voltage		70	V	
$I_{F(AV)}$	Average Rectified Forward Current		200	mA	
I_{FSM}	Non-Repetitive Peak Forward Surge Current	Pulse Width=1.0s	1.0	A	
		Pulse Width=1.0μs	2.0		
P_D	Power Dissipation		350	mW	
R_{thJA}	Thermal Resistance, Junction to Ambient		357	° C/W	
T_J	Operating Junction Temperature		150	° C	
T_{STG}	Storage Temperature Range		-55 to +150	° C	

Note: * These ratings are limiting values above which the serviceability of the diode may be impaired.

1: These ratings are based on a maximum junction temperature of 150 degree C.

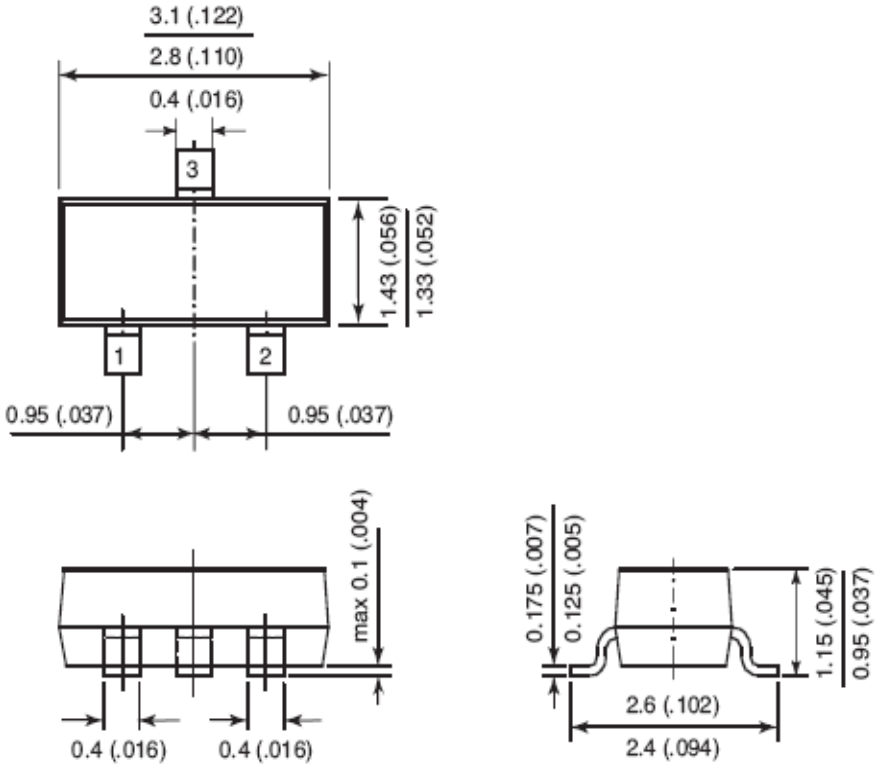
2: These are steady limits. The factory should be consulted on applications involving pulse or low duty cycle operations.

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

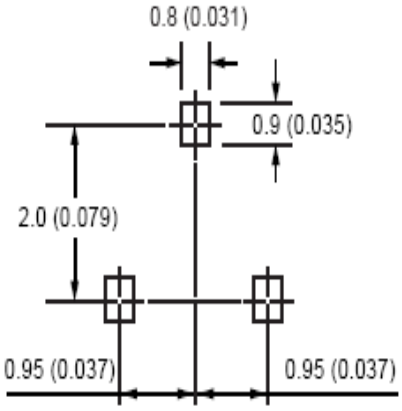
Symbol	Description	Min.	Max.	Unit	Conditions
V_R	Breakdown Voltage	75	-	V	I_R=100μA
V_F	Forward Voltage	-	0.715	V	I_F=1.0mA
			0.855		I_F=10mA
			1.0		I_F=50mA
			1.25		I_F=150mA
I_R	Reverse Current	-	5.0	μA	V_R=70V
			60		V_R=25V, T_A=150° C
			100		V_R=70V, T_A=150° C
C_T	Total Capacitance	-	1.5	pF	V_R=0V, f=1MHz
T_{rr}	Reverse Recovery Time	-	6.0	nS	I_F=I_R=10mA, I_{RR}=1.0mA, R_L=100Ω

Dimensions in mm (inch)

SOT-23

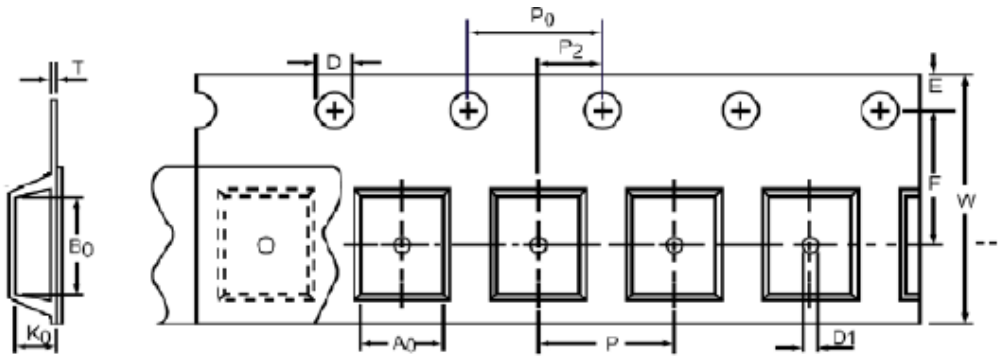


Mounting Pad Layout in mm (inch)



Packing Information:

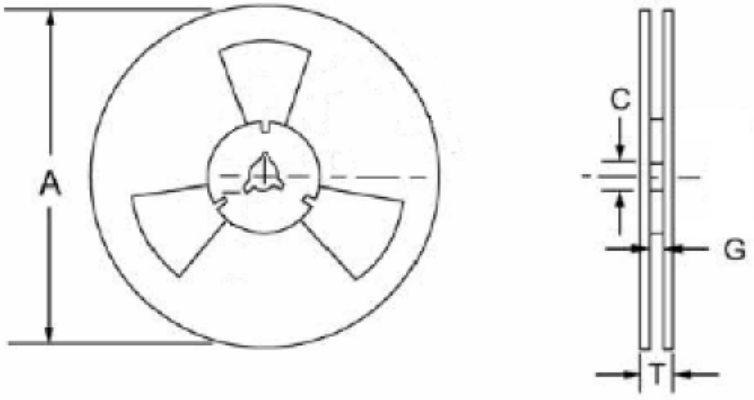
Carrier Tape Dimensions (in mm)



Product Type	A0	B0	K0	D	P0	P
	See Note			1.55±0.5	4.0±0.1	4.0±0.1
SOT-23	W	E	T	D1	F	P2
	8.0+0.3/-0.1	1.75±0.1	0.38±0.1	1.0±0.05	3.5±0.5	2.0±0.05

Note: Symbol A0, B0, K0 are determined by the maximum dimensions of the component size. The clearance between the component and the cavity must be within 0.05 mm (0.002'') min. to 0.50 mm (0.02'') max. for 8 mm tape.

Reel Dimensions (in mm)



A	C	G	T
178.0±2.0	13.0±0.5	8.4±2.0	14.4 max.

Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Inner Carton
TR70 Tape & Reel	3000/Reel	15000

Inner Carton Size Information:

Cartoon Size
190X190X80 (in mm)

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