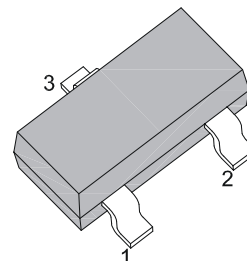


Three Terminals SMD Switching Diode

Features

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

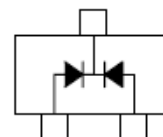


SOT-23



Mechanical Data

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



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

Symbol	Description	BAV70	Unit	Conditions
	Marking Code	A4/JA		
VRRM	Maximum Repetitive Reverse Voltage	70	V	
IF(AV)	Average Rectified Forward Current	200	mA	
IFSM	Non-Repetitive Peak Forward Surge Current	Pulse Width=1.0s	1.0	A
		Pulse Width=1.0 μ s	2.0	
PD	Power Dissipation	350	mW	
RthJA	Thermal Resistance, Junction to Ambient	357	$^{\circ}C/W$	
TJ	Operating Junction Temperature	150	$^{\circ}C$	
TSTG	Storage Temperature Range	-55 to +150	$^{\circ}C$	

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.

Three Terminals SMD Switching Diode

BAV70

Electrical Characteristics *(T_{Ambient}=25°C unless noted otherwise)*

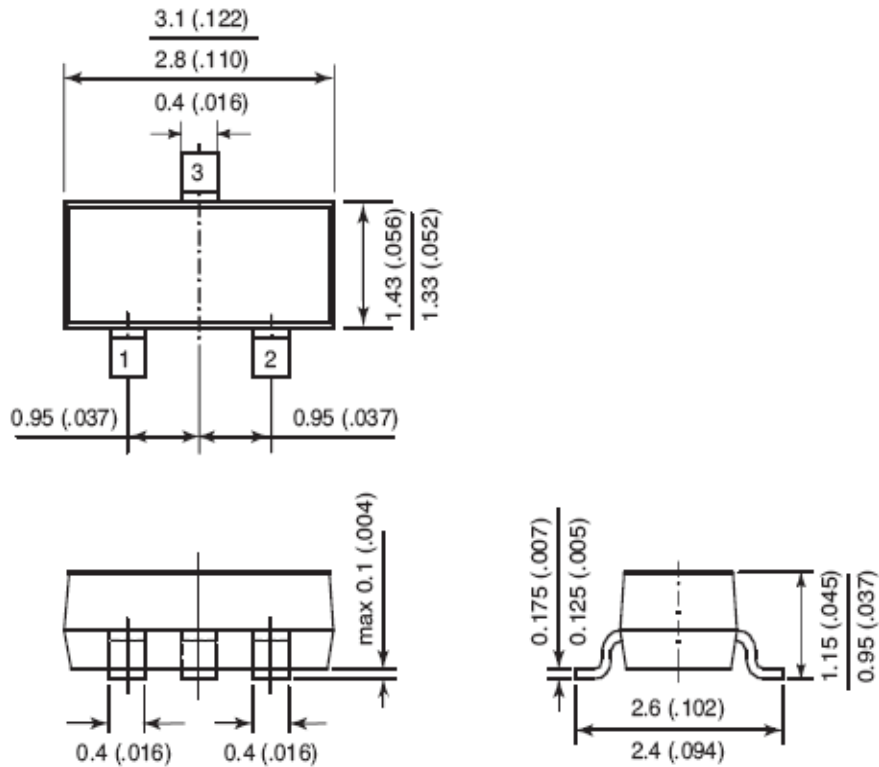
Symbol	Description	Min.	Max.	Unit	Conditions
V_R	Breakdown Voltage	75	-	V	I _R =100μA
V_F	Forward Voltage	-	0.715	V	I _F =1.0mA
			0.855		I _F =10mA
			1.0		I _F =50mA
			1.25		I _F =150mA
I_R	Reverse Current	-	5.0	μA	V _R =70V
			60		V _R =25V, T _A =150° C
			100		V _R =70V, T _A =150° C
C_T	Total 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

Three Terminals SMD Switching Diode

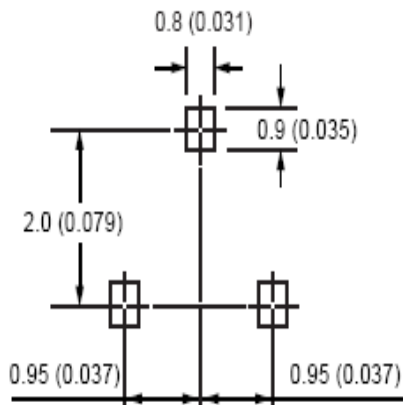
BAV70

Dimensions in mm (inch)

SOT-23



Mounting Pad Layout in mm (inch)

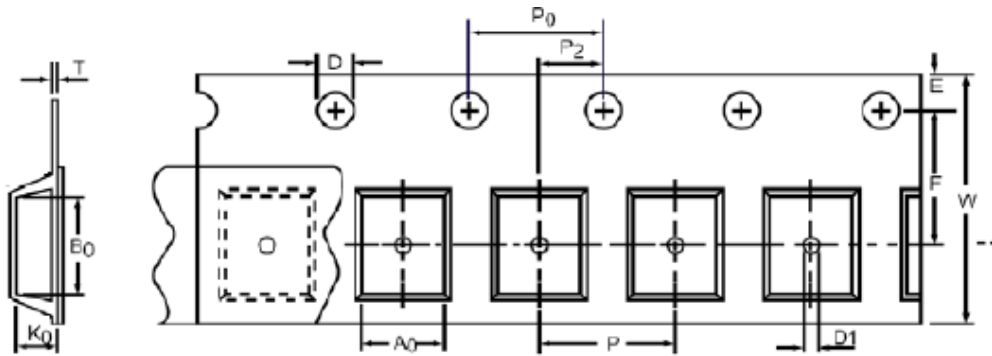


Three Terminals SMD Switching Diode

BAV70

Packing Information:

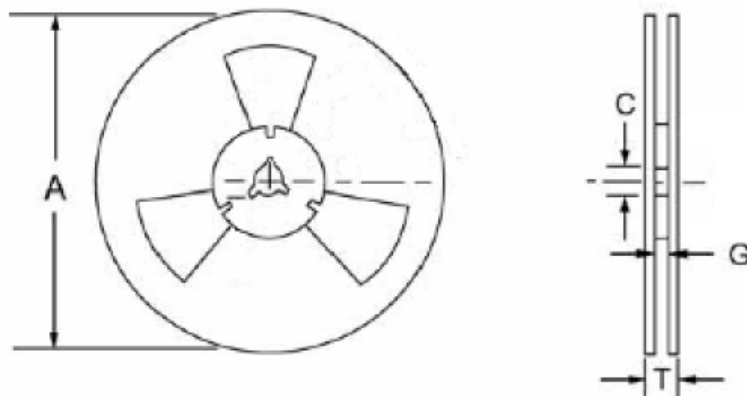
Carrier Tape Dimensions (in mm)



Product Type	A0	B0	K0	D	P0	P
	See Note				1.55±0.5	4.0±0.1
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.

Three Terminals SMD Switching Diode

BAV70

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