

P0080SB
Bidirectional Overvoltage Protector

Revision:B

General Description

Dual symmetrical transient voltage suppressors are solid state crowbar devices especially designed to protect sensitive telecommunication equipment against lightning strikes and other transient overvoltages.

Features

Advantages of the dual symmetrical transient voltage suppressors include their fast response time, stable electrical characteristics, long term reliability, and low capacitance. Also, because the devices are crowbar devices, they can not be damaged by voltage and they have extremely high surge current rating.

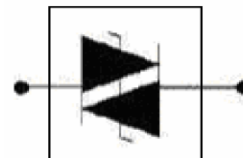
Main Applications

- T1/E1, ISDN, and xDSL transmission equipment
- Customer Premises Equipment (CPE) such as phones, modems, and caller ID adjunct boxes.
- PBX's and other switches
- Primary protection including main distribution frames, building entrance equipment and station protection modules
- Data lines and security systems

Functional diagram



SMB(DO-214AA)

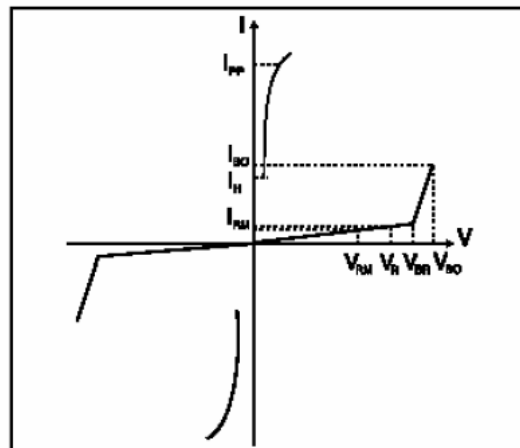


Absolute Maximum Ratings (T_a=25°C)

Symbol	Parameter	Value	Unit
T _L	Maximum lead temperature for soldering during 10s	260	°C
T _j	Junction Temperature	150	°C
T _s	Storage Temperature Range	-40 to +150	°C

Electrical Parameters

Symbol	Parameter
V_{RM}	Stand-off voltage
V_{BR}	Breakdown voltage
V_{BO}	Switching Voltage
I_{BO}	Breakover current
I_{RM}	Leakage current at V_{RM}
I_{PP}	Peak pulse current
I_H	Holding current
V_T	On-state Voltage at I_T
C_O	Off-state Capacitance



Electrical Characteristics

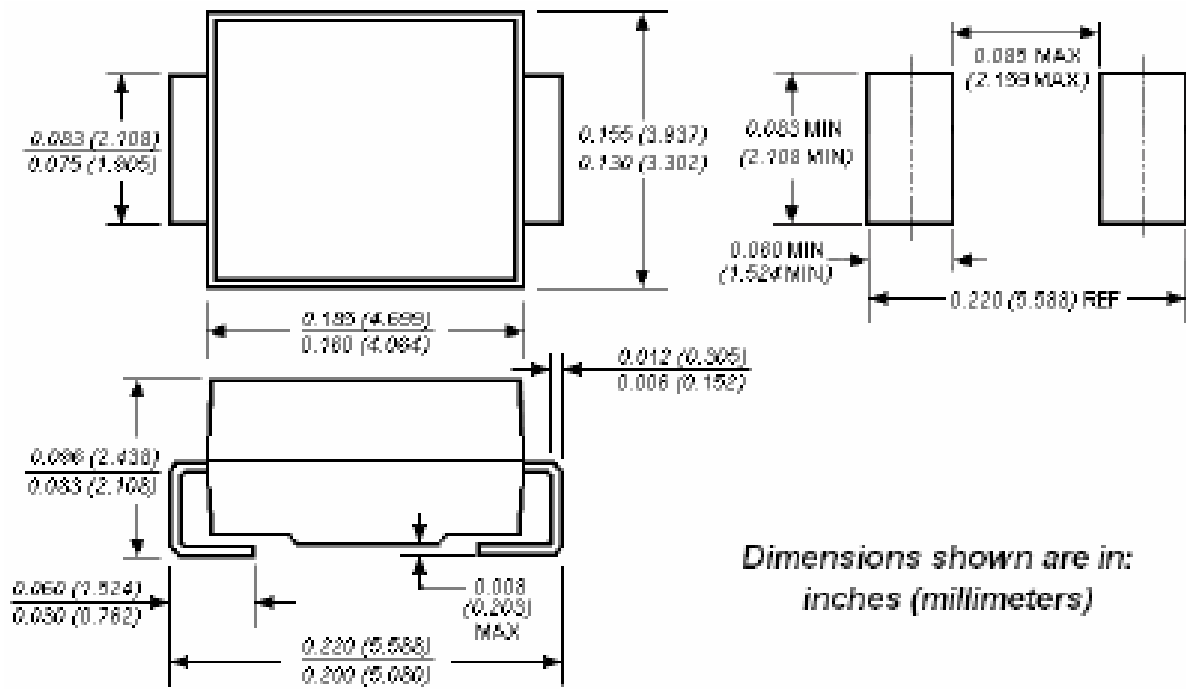
Part Number	V_{RM}	I_{RM}	V_{BO}	I_{BO}	V_T	I_T	I_H	C_O
	Min.		Max.	Max.	Max.		Min.	Max.
	V	μA	V	mA	V	A	mA	pF
P0080SB	6	5	25	800	4	2.2	50	150

Note 1: Off-state capacitance is measured at 1MHz with a 2V bias

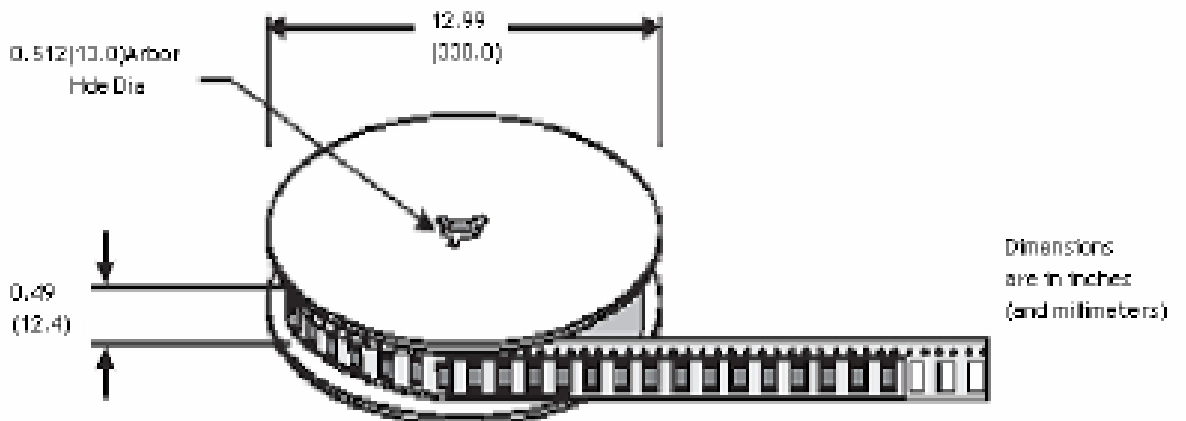
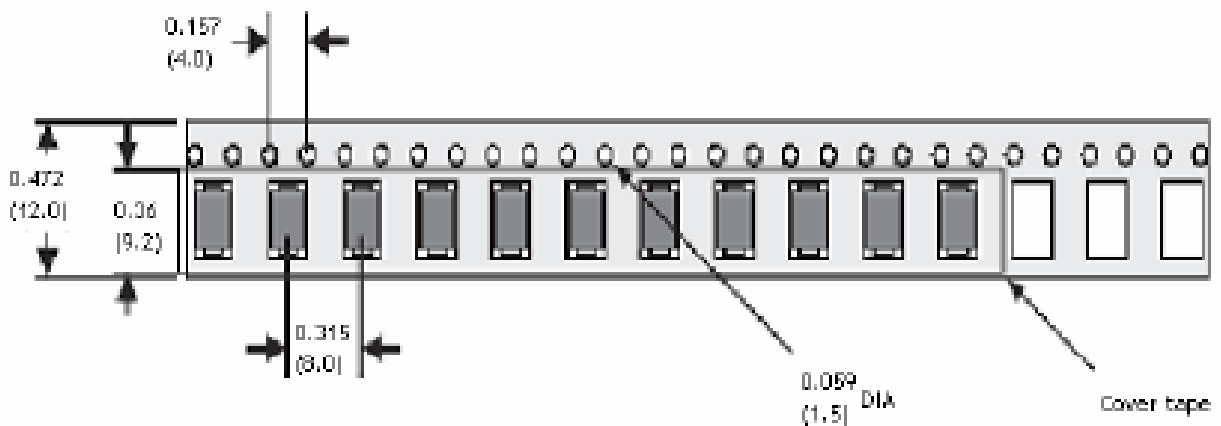
Surge Ratings in Amps

Series	IPP	ITSM	di/dt
	10/1000us	50/60Hz	
	Amps	Amps	Amps
SMB	80	30	500

SMB(DO-214AA) Package mechanical data



Packing Options: 2500pcs per tape



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