

产品规格书

Product Specification

固体放电管

Transient Suppressor Protection Device (TSPD)

型 号 (Part Number) : P0080MCSA

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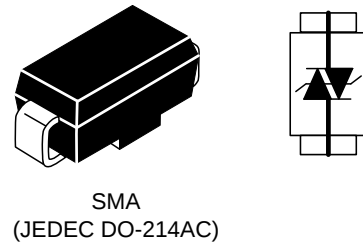
版本Version	编写Compile	审核 Auditing	批准Authorize
V1.0	Teddy Lee	Jim Li	

一、简介 Introduction

Boarden TSPDs are designed to help protect sensitive telecommunication equipments from over voltage events as lightning strikes, power contact and power induction per as Telcordia GR-1089 and ITU-T K.20(K21). A TSPD appears as a very high impedance device under normal operating conditions, but will change its impedance to short to divert current to ground under over voltage events. TSPDs have a very high power energy absorb capability and very fast response time, which helps this product very suitable to be applied to Central Office Equipments (CO) and Customer Premise Equipments (CPE) in telecommunication field.

二、特点 Features

- High Power Capacity 50A (10/1000us voltage Waveform)
- Low Capacitance less than 25pF
- Low Leakage Current less than 2μA
- Bi-direction Protection Devices
- Response Time is < 1ns
- Solid-state silicon technology
- RoHS Compliant
- Meets MSL 1 Requirements

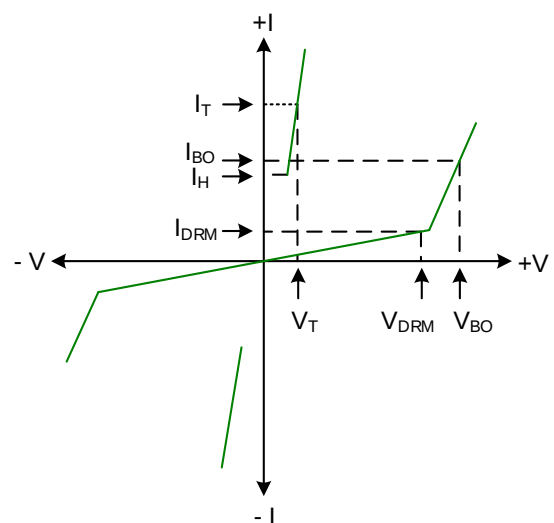


三、主要应用 Main applications

- Audio/Video Line
- RS-485
- Peripherals
- Networking and Telecom
- Serial and Parallel Ports

五、电参数 Electrical information (Tamb=25°C)

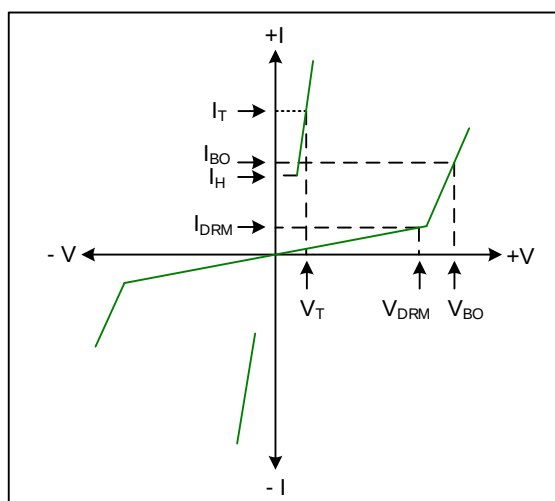
Parameter	Definition
C	Off-state Capacitance
I _{BO}	Switching Current
I _{DRM}	Leakage Current
I _H	Holding Current
I _{PP}	Peak Pulse Current
I _T	On-state Current
I _{TSM}	Peak One-cycle Surge Current
V _{BO}	Switching Voltage
V _{DRM}	Peak Off-state Voltage
V _T	On-state Voltage



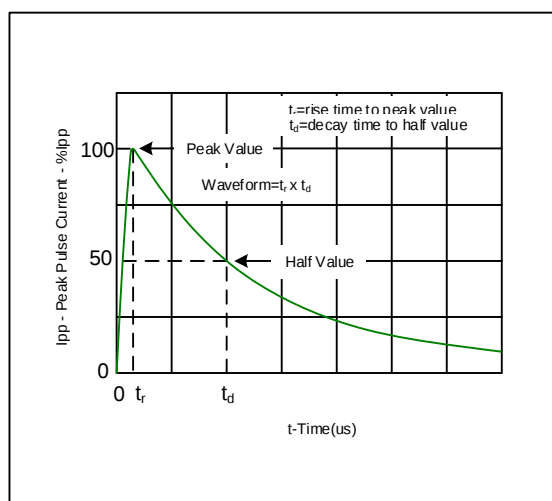
六、电特性 Electrical Characters

PART NUMBER	Maximum Standard-off Voltage	Maximum Leakage Current @V _{DRM}	Maximum Breakover Voltage	Maximum Breakover Current	On-state Voltage @1A	Maximum Capacitance @V _R = 0V, f = 1MHz	Peak Pulse Voltage @10/1000μs
	V _{DRM} (V)	I _{DRM} (μA)	V _{BO} (V)	I _{BO} (mA)	V _t (V)	C Typ.(pF)	I _{pp} V
P0080MCSA	6	10	25	800	4	25	50

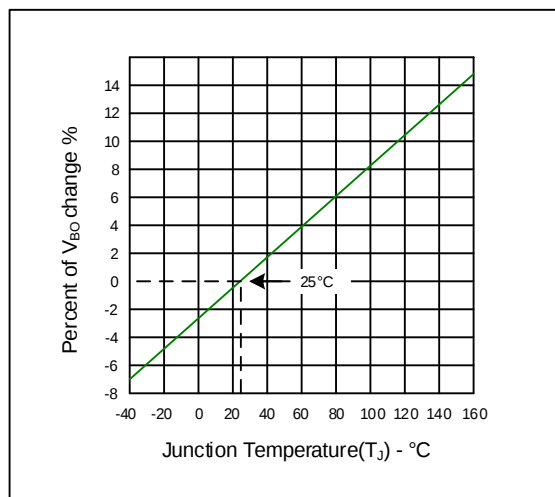
七、典型电特性曲线 Typical electrical characters applications



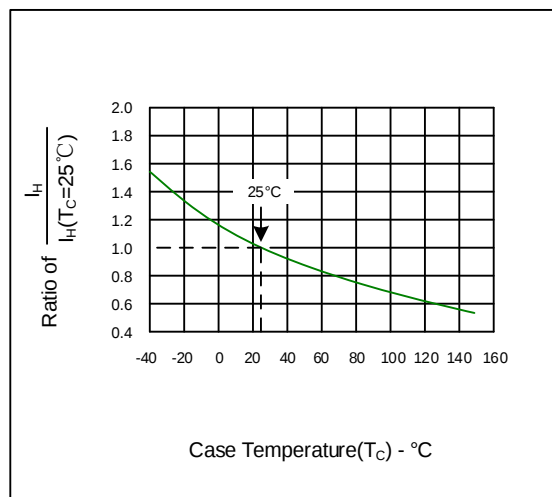
V - I Characteristics



Tr x td Pulse Waveform



Normalized V_{BO} Change versus Junction Temperature

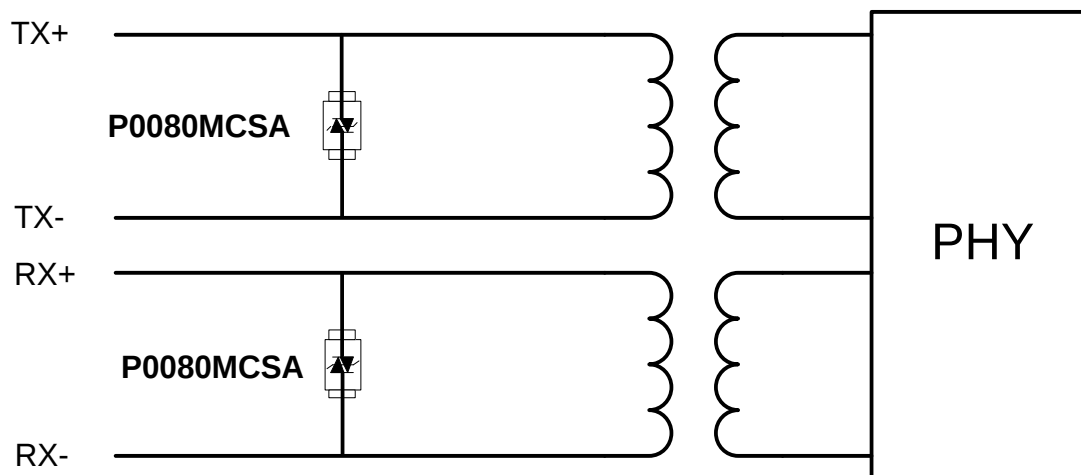


Normalized DC Holding current versus Case Temperature

八、热特性 Thermal Considerations

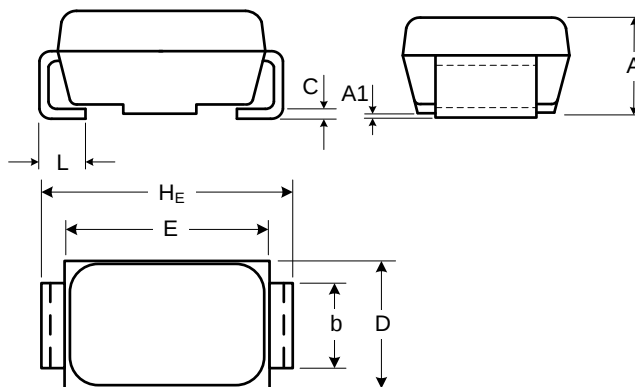
Symbol	Parameter	Value	Unit
TJ	Operating Junction Temperature	-40 to +150	°C
TS	Storage Temperature Range	-40 to +150	°C
R _{θJA}	Junction to Ambient on printed circuit	90	°C/W

九、典型应用 Typical applications



十、外观尺寸 Shape and Dimensions

Ref. (mm)	Min.	Max.
A	2.00	2.44
A1	0.05	0.20
b	1.20	1.60
C	0.15	0.41
D	2.50	2.90
H _E	4.80	5.28
E	4.00	4.60
L	0.76	1.52



十一、订购信息 How To Order

Device	Qty per Reel	Reel Size
P0080MCSA	5000	13 Inch

十二、其他 Other

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