

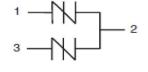
Thyristor Surge Suppressors

Description Package DO-214AA/SMB

sgs

P0080C2 Thyristor Surge Suppressors protect telecommunications equipment such as ADSL Modems, Router, , Telephone, CCTV Camera, Digital Video Record, Video Capture Card, Twisted-pair video transmitter, CATV Splitter.....Etc.

P0080C2 Thyristor Surge Suppressors are used to enable equipment to meet various regulatory requirements including GR 1089, ITU K.20/21,IEC 61000-4-5, YD/T 1082,YD/T 993,YD/T 950, TIA-968-A ,TIA-968-B



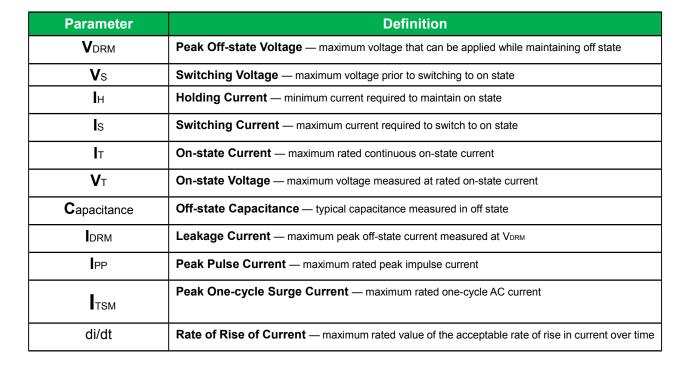
Schematic Symbol

Features

Compared to surge suppression using other technologies, P0080C2 devices offer absolute surge protection regardless of the surge current available and the rate of applied voltage (dv/dt).P0080C2 devices:

- 100% Lead-Free(RoHs Compliant)
- Cannot be damaged by voltage
- Eliminate hysteresis and heat dissipation typically found with clamping devices
- Eliminate voltage overshoot caused by fast-rising transients
- Are non-degenerative
- Have low capacitance, making them ideal for high-speed transmission equipment

Electrical Characteristics





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Electrical Characteristics										
		Vdrm	Vs	Iн	Is	Iτ	VT@IT	Capacitance	IPP	
Part	Marking	@Idrm=5 μ	@100V/	Min	Max	Max	=2.2Am	@1MHz,2V	10/700us	Delivery Time
Number		A	μs				ps	bias		
		V min	V max	mA	mA	A	Vmax	pF	V	Days
P0080C2	P008C2	6	25	50	800	2.2	4	120	6000	14days
P0300C2	P03C2	25	40	50	800	2.2	4	120	6000	14days
P0640C2	P06C2	58	77	50	800	2.2	4	120	6000	14days

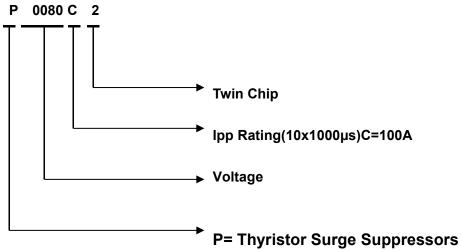
Notes:

- -All measurements are made at an ambient temperature of 25°C .lpp applies to -40°C through +85°C temperature range .
- -Off-state capacitance(Co) is typical value.

	I _{pp} 2x10μs	I _{pp} 8x20μs	I _{pp} 10x160μs	I _{pp} 10x1000μs	I _{pp} 5x320μs	I _{pp} 10x360μs
Series	Amps	Amps	Amps	Amps	Amps	Amps
С	500	400	200	100	150	75

Package DO-214AA/SMB	Symbol	Parameter	Value	Unit
	T_{J}	Operating Junction Temperature Range	-40 to +150	°C
200	Ts	Storage Temperature Range	-65 to +150	°C
	$R_{ heta JA}$	Junction to Ambient on prited circuit	90	°C /W

Description of Part Number



Specifications are subject to change without notice

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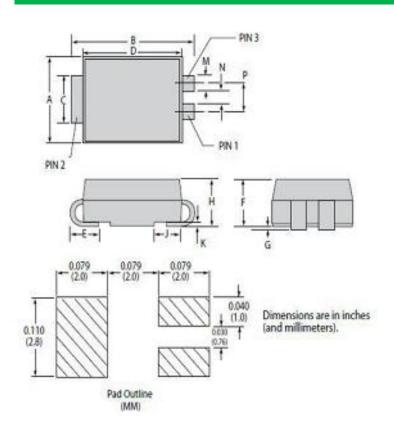
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Dimensions - DO-214AA / SMB





	Inc	hes	Millimeters		
	Min	Max	Min	Max	
Α	0.130	0.155	3.30	3.94	
В	0.201	0.22	5.10	5.60	
С	0.077	0.083	1.95	2.11	
D	0.166	0.185	4.22	4.70	
E	0.030	0.063	0.75	1.60	
F	0.075	0.103	1.90	2.55	
G	0.002	0.008	0.05	0.20	
Н	0.077	0.104	1.95	2.65	
М	0.018	0.028	0.46	0.71	
K	0.008	0.014	0.20	0.35	
N	0.018	0.028	0.46	0.71	
Р	0.036	0.058	0.92	1.47	

Ratings And V-I Characteristics Curves (TA=25°C, unless otherwise noted)

FIG.1: tr × td pulse waveform

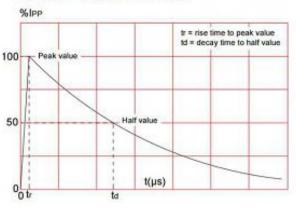
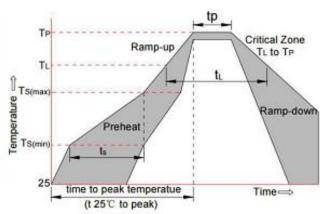


FIG.2: Reflow condition



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Packing Options



Package Type	Description	Packing Quantity	Industry Standard
S	DO-214AA Reel Pack	3000 PCS	EIA-481-D

Characteristics Curve

FIG.3: Normalized Vs change vs. junction temperature

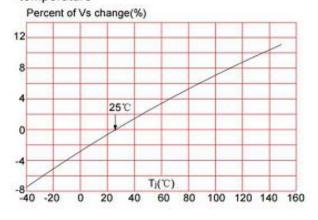
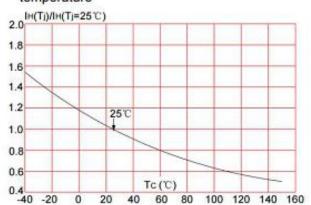


FIG.4: Normalized DC holding current vs. case temperature



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