

Description

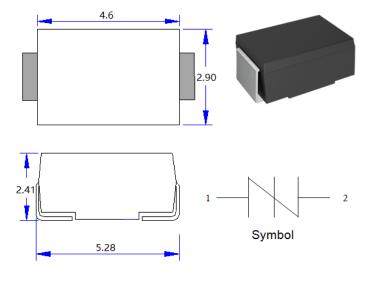
P0080TA thyristors are a type of semi-conduct component. They are designed in applications, modems, telephones, line cards, answering machines, FAX machines, SLICs, T1/E1, xDSL, PBXs and more.

This series can be used to provide protection in accordance with industry standards such as FCC Part 68, ANSI C62.41, UL 1459, GR-1089-CORE, IEC 61000-2, IEC 61000-4 and IEC 61000-4-5 requirements

Features

- 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
- Will not fatigue
- Meets MSL level 1, per J-STD-020

Dimensions & Symbol (Unit: mm Max)



Mechanical Characteristics

Package: SMA/DO-214AC

- Case Material: "Green" Molding Compound.
- Lead Finish: Matte Tin
- Flammability Classification Rating 94V-0
- Standard Packaging: 12mm tape (EIA STD RS-481)
- Weight: 0.07g
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Applications

- SLIC Line Card
- T1/E1 Trunk & Line Card
- DBX Branch Exchange Switches
- FCC Part 68 Customer Premise Equipment
- Line Interface Modem
- xDSL Architecture Interface

Marking Information



Details marking code reference customer approval list

Ordering Information

Out line	Reel	Per carton	Reel diameters
	(pcs)	(pcs)	(mm)
Taping	5K	80K	330

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Absolute Maximum Ratings (T_A=25°C, RH=45%-75%, unless otherwise noted)

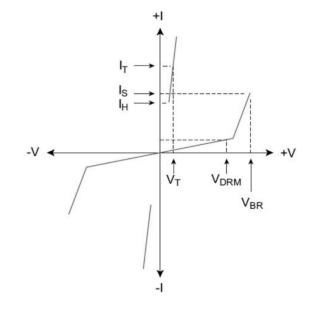
Parameter	Symbol	Value	Unit
Storage temperature range	T _{stg}	-60 to +150	$^{\circ}\mathbb{C}$
Operating junction temperature range	Tj	-40 to +150	$^{\circ}$ C
Repetitive peak pulse current	I _{PP}	60	Α

Electrical Characteristics (T_A=25°C)

	V_{RM}	I_{RM}	V_{BO}	I_{BO}	V_{T}	Ι _Τ	Co	I _H
Part Number	Min.	Max.	М	ax.	Ма	X.	Max.	Тур.
	V	uA	V	mA	V	Α	рF	mA
P0080TA	6	3	15	800	4	2.2	8	25

Electrical Parameters & V-I Curve

Symbol	Parameter	
V_{DRM}	Peak off-state voltage	
I _{DRM}	Off-state current	
Vs	Switching voltage	
Is	Switching current	
V _T	On-state voltage	
I _T	On-state current	
I _H	Holding current	
Co	Off-state capacitance	



Surge Ratings

Corios	I _{PP} (A) min				
Series	2×10us	8×20us	5×320us	10×1000us	
А	100	90	60	35	

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

Reflow Conditi	on	Pb-Free assembly (see FIG.2)	
	-Temperature Min (T _{s(min)})	+150℃	
Pre Heat	-Temperature Max(T _{s(max)})	+200℃	
	-Time (Min to Max) (ts)	60-180 secs.	
Average ramp	up rate (Liquid us Temp (T _L) to peak)	3°C/sec. Max	
$T_{s(max)}$ to T_L - R	amp-up Rate	3℃/sec. Max	
Deflow	-Temperature(T∟) (Liquid us)	+217℃	
Reflow	-Temperature(t _L)	60-150 secs.	
Peak Temp (Tp	s)	+260(+0/-5)°C	
Time within 5°	of actual Peak Temp (t _p)	30 secs. Max	
Ramp-down R	ate	6°C/sec. Max	
Time 25°C to Peak Temp (T _P)		8 min. Max	
Do not exceed		+260℃	

FIG.1: tr ¡ Ád pulse waveform

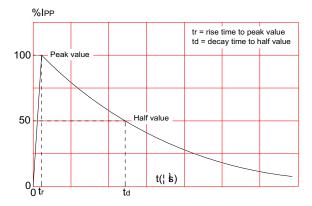


FIG.3: Normalized Vs change vs. junction temperature

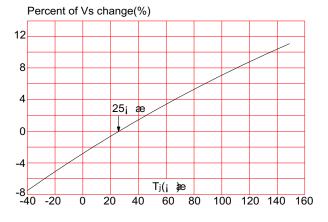


FIG.2: Reflow condition

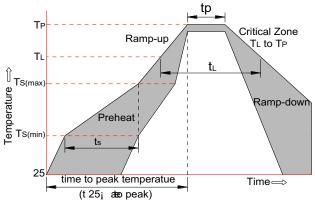
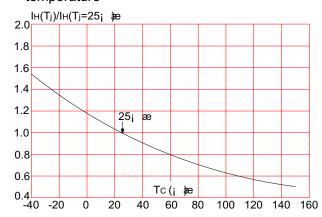


FIG.4: Normalized DC holding current vs. case temperature

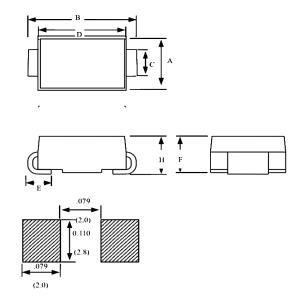


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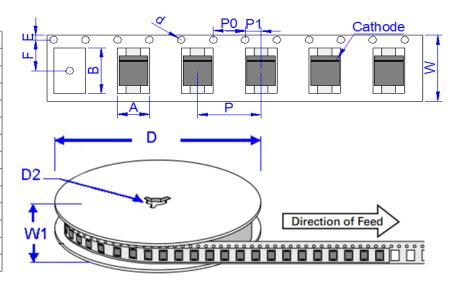
Package Mechanical Data

Dime-	Inc	hes	Millimeters	
nsion	Min	Max	Min	Max
A	0.098	0.114	2.50	2.90
В	0.188	0.208	4.80	5.28
С	0.055	0.062	1.40	1.60
D	0.157	0.181	4.00	4.60
Е	0.030	0.060	0.76	1.52
F	0.078	0.096	2.00	2.44
Н	0.080	0.104	2.051	2.643



Tape & Reel Specification (SMA)

- ·	Dimensions			
Ref.	Millimeters	Inches		
Α	2.79 ± 0.3	0.110 ± 0.012		
В	5.33 ± 0.3	0.210 ± 0.012		
d	1.5 ± 0.1	0.059 ± 0.004		
D	330.0	13.0		
D2	13 ± 1	0.512 ± 0.039		
E	1.5 ± 0.2	0.059 ± 0.008		
F	5.65 ± 0.2	0.222 ± 0.008		
Р	4.0 ± 0.2	0.157 ± 0.008		
P0	4.0 ± 0.2	0.157 ± 0.008		
P1	2.0 ± 0.2	0.079 ± 0.008		
W	12.0 ± 0.2	0.472 ± 0.008		
W1	16.8 ± 2.0			



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