



DESCRIPTION:

The thyristors of CP0080ABN are component. They are designed to protect baseband equipment such as phones, modems, line cards, answering machines, FAX machines, CPE and DSL from damaging overvoltage transients.

FEATURES:

- Excellent capability of absorbing transient surge.
- Quick response to surge voltage (ns Level).
- Eliminates overvoltage caused by fast rising transients.
- Moisture sensitivity level: Level 1.
- UL 497B item recognized. (File No.: E480698).
- IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact).
- Low capacitance.
- Non degenerative.

ABSOLUTE MAXIMUM RATINGS (T_A=25 , RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T _{STG}	-60 to +150	
Operating junction temperature range	T _J	-40 to +125	
Repetitive peak pulse current@10/1000 s	I _{PP}	80	A

ELECTRICAL

MARKING



P8ABN: Device Marking Code
 1828: the 28th week, 2018

ELECTRICAL CHARACTERISTICS (V_{CE}=25V, continued)

Part Number	I _{DRM} @V _{DRM}		V _S @I _S		V _T @I _T		I _H	C _O		Marking
	A	V	V	mA	V	A	mA	pF		
	max		max	max	max	max	min	typ	max	
CP0080ABN	1	6	15	800	4	2.2	50	20	24	P8ABN

V_S is measured at 100kV/s

Off-state capacitance is measured in V_{DC}=2V, V_{RMS}=1V, f=1MHz

SURGRATINGS

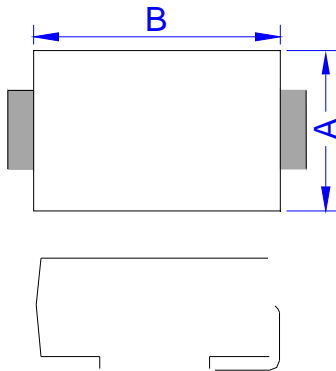
Series	I _{PP} (A) min			
	2/10 s	8/20 s	10/360 s	10/1000 s
B	250	250	125	80

D C

SOLDERING PARAMETERS

Reflow Condition		Pb-Free assembly (see FIG.2)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150
	-Temperature Max($T_{s(max)}$)	+200
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp (T_L) to peak)		3 /sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature(T_L) (Liquidus)	+217
	-Temperature(t_L)	60-150 secs.

PACKAGE MECHANICAL DATA



Ref.	Dimensions			
	Millimeters		Inches	
	Min.			
A	2.60			
B	4.15			
C	1.25			
D	0.95			
E	4.90			
F	0.051			
G	0.15			

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