



CP4200SE TSS

Non degenerative.

ABSOLUTE MAXIMUM RATINGS (TA=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 voltage @10/700μs Ri=18	V _{PP}	6000	V

ELECTRICAL CHARACTERISTICS (TA=25)

Symbol	Parameter
V _{DRM}	Peak off-state voltage
I _{DRM}	Off-state current
V _S	Switching voltage
I _S	Switching current
V _T	On-state voltage
I _T	On-state current
I _H	Holding current
C _O	Off-state capacitance

MARKING



CP42E : Device Marking Code
1409: In ninth week, 2014

ELECTRICAL CHARACTERISTICS (T_A=25 , continued)

Part Number	I _{DRM} @V _{DRM}		V _S @I _S		V _T @I _T		I _H	C _O	Marking
	μA	V	V	mA	V	A	mA	pF	
	max		max	max	max	max	max	max	
CP4200SE	1	400	520	800	4	2.2	100	55	CP42E

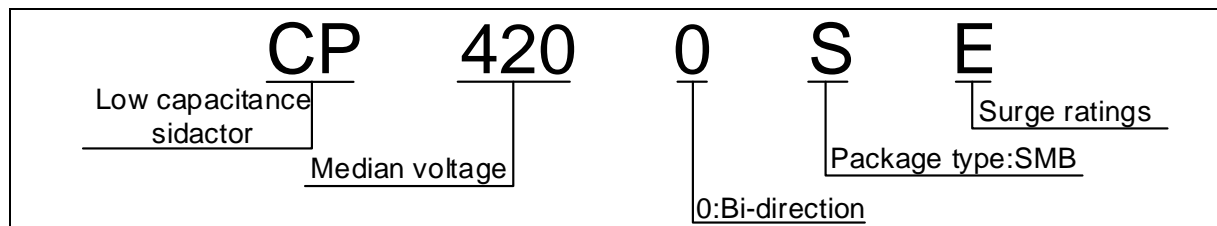
V_S is measured at 100kV/s

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

SURGE RATINGS

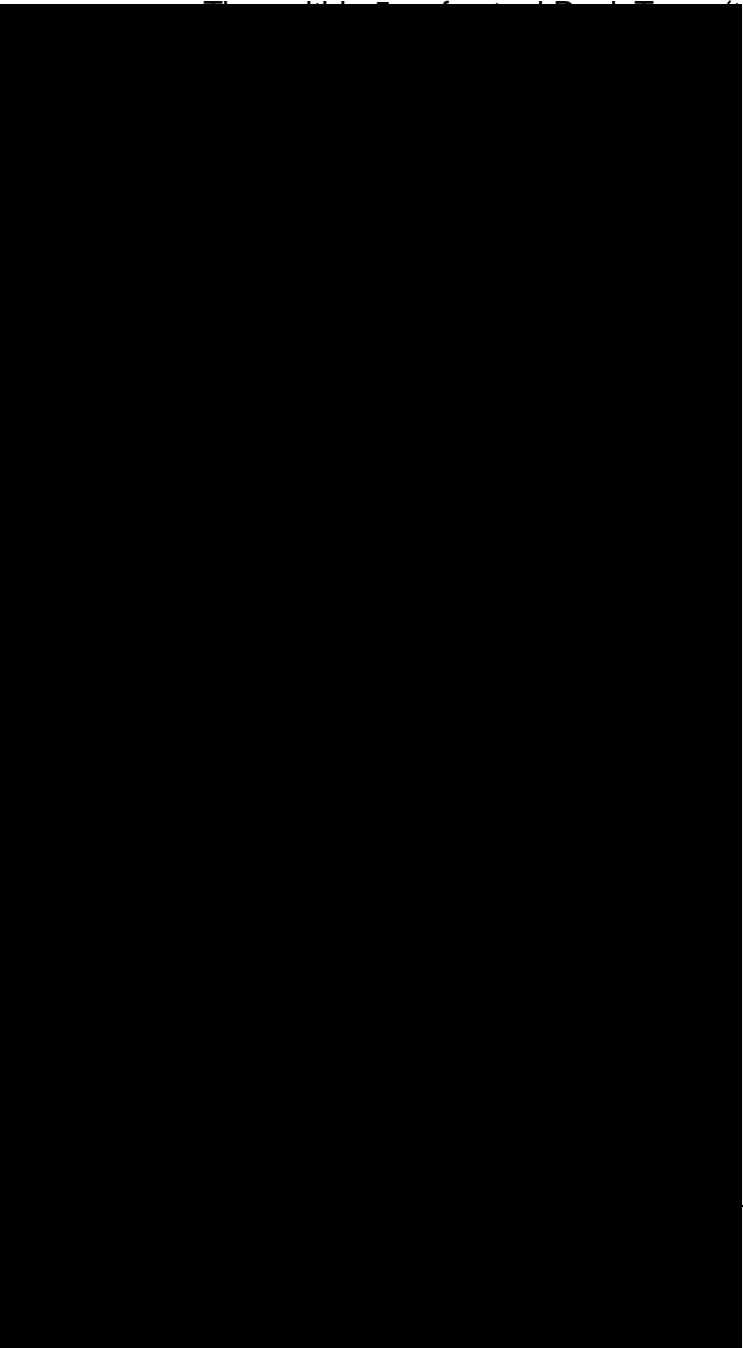
Surge Type	10/700μs (R _i =18)	8/20μs	2/10μs	10/1000μs
CP4200SE	6kV	800A	--	200A

ORDERING INFORMATION




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.
Peak Temp (T_p)		+260(+0/-5)



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