

P8800SCL

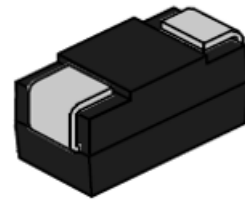
Description

P8800SCL thyristors are a type of semiconduct component. They are used for digital SPC switch, gigabit IP router, equipment ground insulation, computer etc.

Features

- Low profile package
- Low on-state voltage
- 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.
- Non degenerative

PINNING



SMB



Symbol

Absolute maximum ratings($T_A=25^{\circ}\text{C}$, $R_H=45\%-75\%$, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T_{STG}	-60 to +150	$^{\circ}\text{C}$
Operating junction temperature range	T_J	-40 to +125	$^{\circ}\text{C}$
Peak pulse current@10/1000 μs	I_{PP}	100	A

Electrical characteristics($T_A=25^{\circ}\text{C}$)

Part Number	$I_{DRM}@V_{DRM}$		$V_s^{(1)}@I_s$		$V_T@I_T$		I_H	$C_o^{(2)}$	Marking
	μA	V	V	V	A	A	mA	pF	
	max		max	max	max	max	typ.	max	
P8800SCL	5	750	1000	800	4	2.2	50	50	P88C

① V_s is measured at 100KV/s

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

Surge ratings

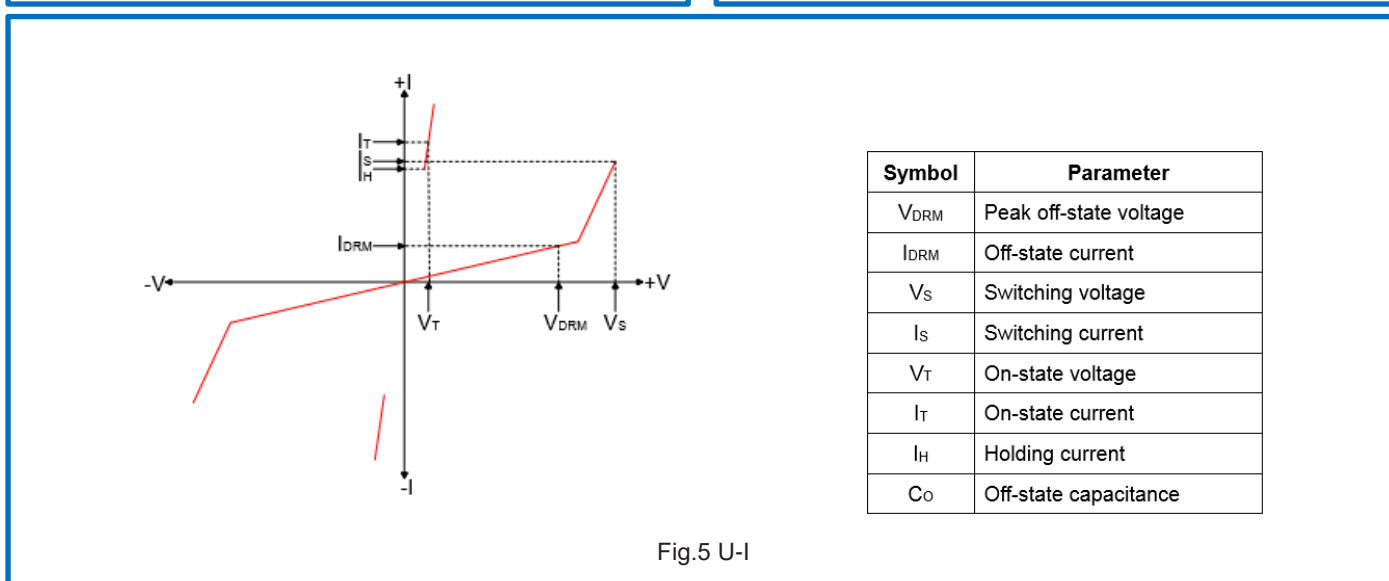
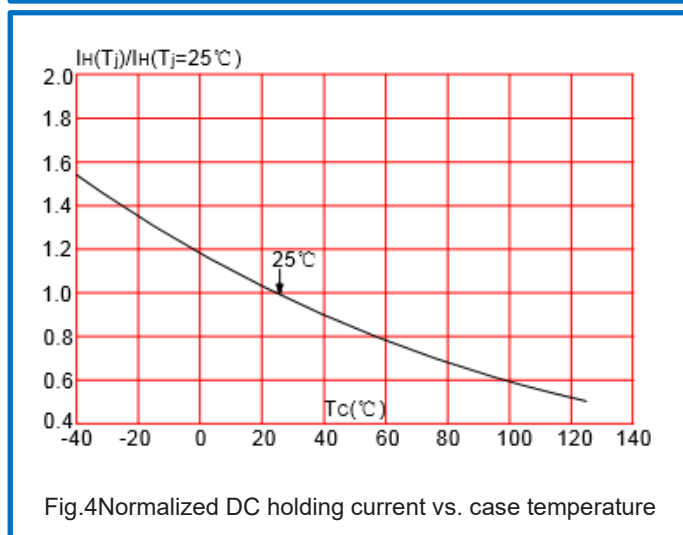
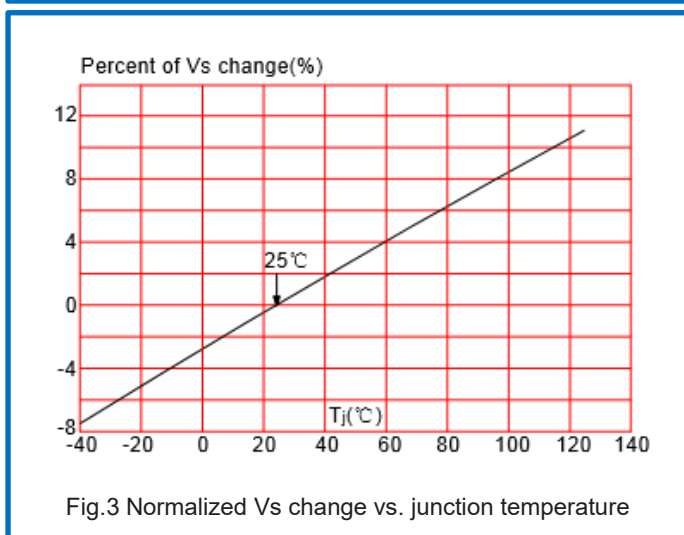
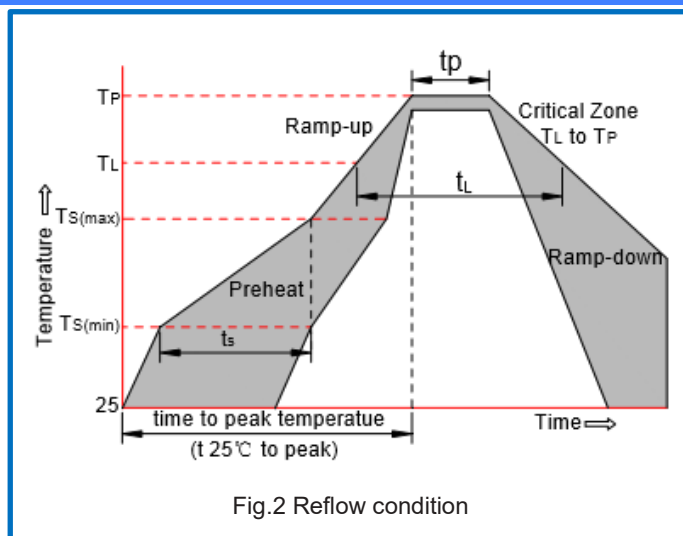
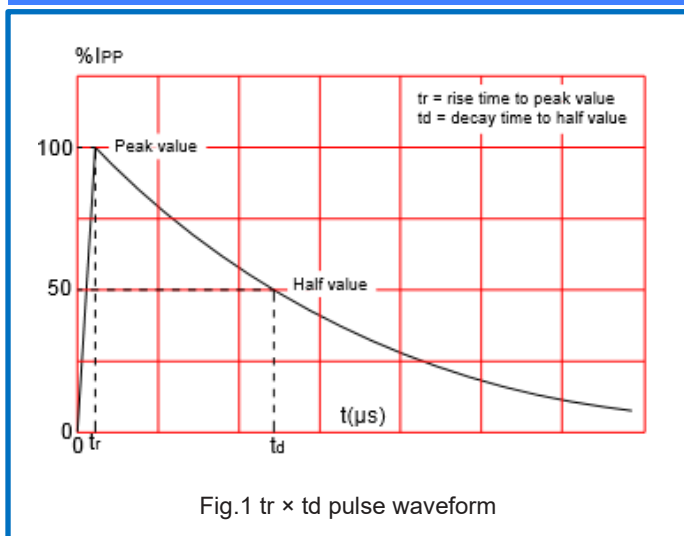
IPP(A)min			
2/10 μs	8/20 μs	10/360 μs	10/1000 μs
500	400	175	100

Soldering parameters

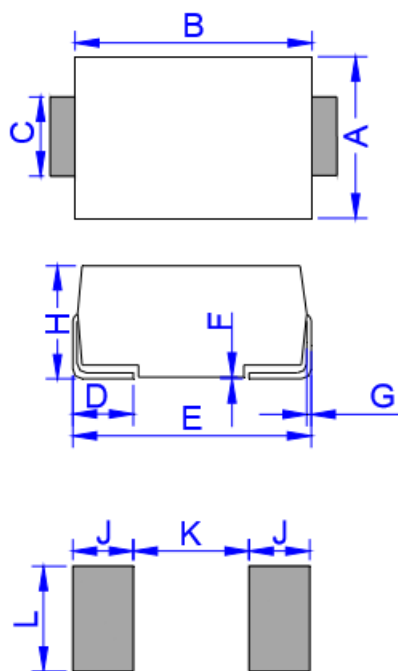
Reflow Condition		Pb-Free assembly (see FIG.2)
Pre Heat	-Temperature Min ($T_s(\text{min})$)	+150 $^{\circ}\text{C}$
	-Temperature Max($T_s(\text{max})$)	+200 $^{\circ}\text{C}$
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp (TL)to peak)		3 $^{\circ}\text{C}/\text{sec}$. Max
Ts(max) to TL - Ramp-up Rate		3 $^{\circ}\text{C}/\text{sec}$. Max
Reflow	-Temperature(TL) (Liquidus)	+217 $^{\circ}\text{C}$
	-Temperature(tL)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5) $^{\circ}\text{C}$
Time within 5 $^{\circ}\text{C}$ of actual Peak Temp (t_p)		30 secs. Max

Ramp-down Rate	6°C/sec. Max
Time 25°C to Peak Temp (TP)	8 min. Max
Do not exceed	+260°C

Curve



Dimensions(SMB)



DO-214AA (SMB)

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.30	3.94	0.130	0.155
B	4.30	4.80	0.169	0.189
C	1.90	2.20	0.075	0.087
D	0.95	1.52	0.037	0.060
E	5.20	5.60	0.205	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	2.10	2.40	0.083	0.094
J	2.20		0.087	
K		2.60		0.102
L	2.30		0.091	