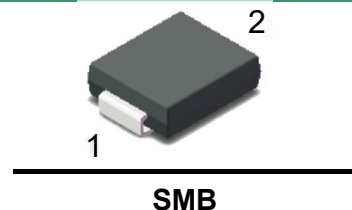


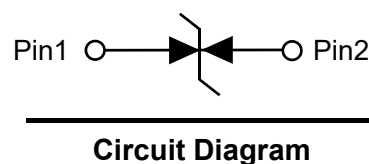
Feature

- 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
- Bi-directional.



Applications Information

- Power/Ethernet



Thermal Considerations

Rating	Symbol	Value	Units
Operating Junction Temperature Range	T_J	-40~+150	°C
Storage Temperature Range	T_S	-55~+150	°C

Part Number and Electrical Parameter(Absolute maximum ratings measured at $T_A=25^{\circ}\text{C}$ RH=45%-75% (unless otherwise noted).)

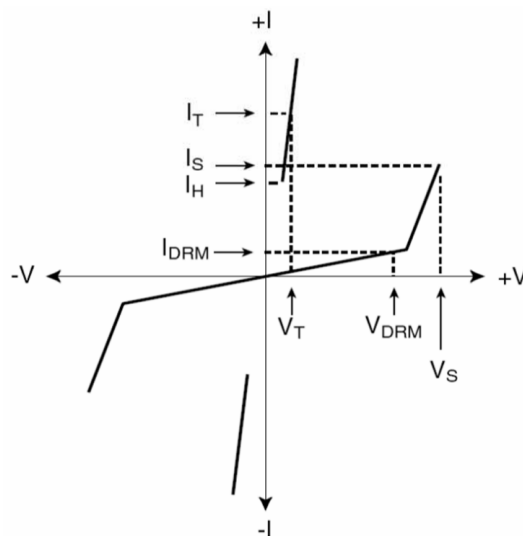
Part Number	$I_{\text{DRM}} @ V_{\text{DRM}}$		$V_S @ I_S^{(1)}$		$V_T @ I_T$		I_H	$C_O^{(2)}$
	μA	V	V	mA	V	A	mA	pF
	Max		Max		Max		Min	Typ
POV8800SCI	5	750	1100	800	4	2.2	5	35

Note

1. V_S is measured at 100KV/S
2. Off-state Capacitance is measured at $V_{\text{DC}}=2\text{V}$, $V_{\text{RMS}}=1\text{V}$, $f=1\text{MHz}$

V-I Curve

Symbol	Parameter
V_{DRM}	Peak Off-state Voltage
I_{DRM}	Off-state Current
V_S	Switching Voltage
I_S	Switching Current
I_H	Holding Current
V_T	On-state Voltage
I_T	On-state Current
C_O	Off-state Capacitance

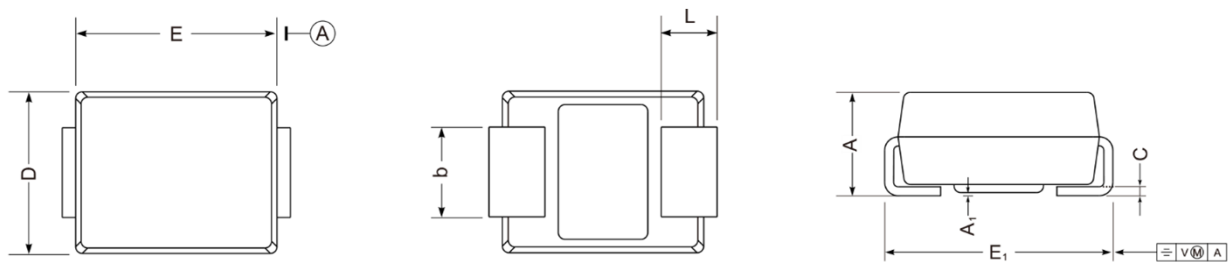


Surge Ratings

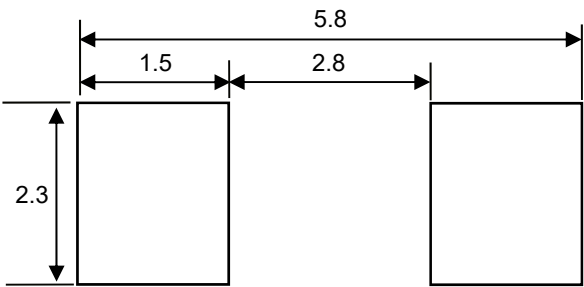
Current Waveform	8/20μs	5/320μs*
Voltage Waveform	1.2/50μs	10/700μs*
Ipp	400A	150A

Peak pulse current rating (IPP) is repetitive and guaranteed for the life of the product;
-DOIT only makes the test for 5/320 μs@150A* (10/700 μs@6KV), but for other IPP value derived from experience is just for reference only. DOIT will not take any obligation for these parameters, so before applying our parts, please make sure to verify the parameters listed in the above table.

Product Dimension (SMB)



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	2.10	2.75	0.083	0.108
E	4.05	4.90	0.159	0.193
D	3.30	3.94	0.130	0.155
E ₁	5.08	5.70	0.200	0.224
A ₁	-	0.30	-	0.012
L	0.76	1.52	0.030	0.060
C	0.00	0.40	0.000	0.016
b	1.80	2.20	0.071	0.087



Unit: mm

Suggested PCB Layout

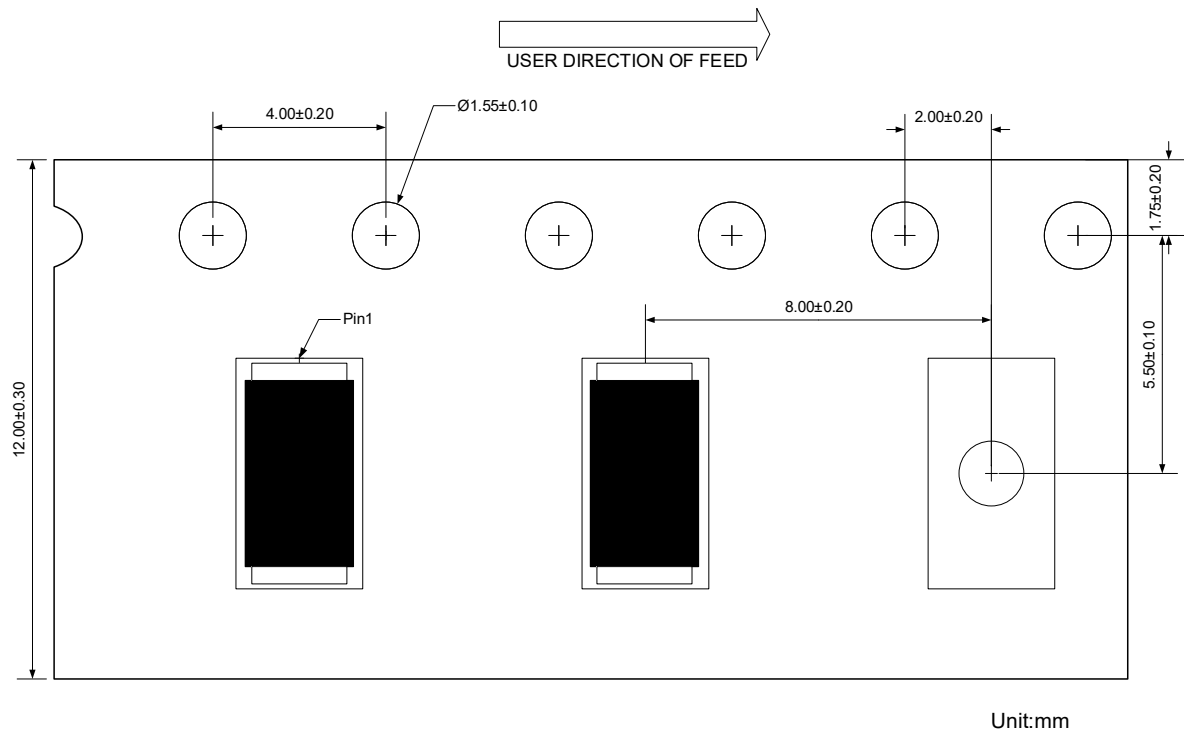
Over-voltage Protection Thyristor

POV8800SCI

Ordering information

Package	Reel	Shipping
SMB	13"	3000 / Tape & Reel

Ordering information



Ordering information



80SCS :Device Code
XXXX :Traceability Code

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