

Description

The CSL05Y4U series transient voltage suppressor arrays, designed to protect applications such as computers, printers, business machines, communication system and other applications. This series is rated at 60 Watts for an 8/20µs waveform. This series offers low leakage current in a SOT-553 package.



- ♦ 60 Watts peak pulse power (tp=8/20µs)
- Low leakage current
- Low clamping voltage

Mechanical Data

- Personal digital assistants (PDA's)
- Microprocessors based equipment
- Notebooks, desktops, and servers

- Protect two bi-directional lines or four unidirectiona lines
- RoHS compliant
- Cell phone handsets and accessories
- Portable electronics
- Peripherals

Ordering Information

Part	Dackago	Marking	Material	Dacking	Quantity	Flammability	Reel
Number	Package	Marking	Material	Packing	per reel	Rating	Size
CSL05Y4U	SOT-553	.L2W	Halogen free	Tape & Reel	3,000 PCS	UL 94V-0	7 inches

Table-1 Ordering information





Pin Configuration and Functions

Pin	Name	Description	Outline	Circuit Diagram
1	IO1	Connect to IO	5 4	
2	GND	Connect to GND	L2W	
3	IO2	Connect to IO		¥ ¥
4	IO3	Connect to IO		
5	104	Connect to IO		

Table-2 Pin configuration

Absolute Maximum Rating

Over operating free-air temperature range (unless otherwise noted)

Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P _{pk}	-	60	W
Peak pulse current (tp=8/20us)@25°C	I _{PP}		4.5	А
ESD (IEC61000-4-2 air discharge) @25°C	V _{ESD}	-	±17	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V _{ESD}	-	±12	kV
Junction temperature	TJ	-	125	°C
Operating temperature	T _{OP}	-40	125	°C
Storage temperature	T _{STG}	-55	150	°C
Lead temperature	TL	-	260	°C

Table-3 Absolute Maximum rating



Eletrical Characteristics

At Ta = 25°C unless otherwise noted

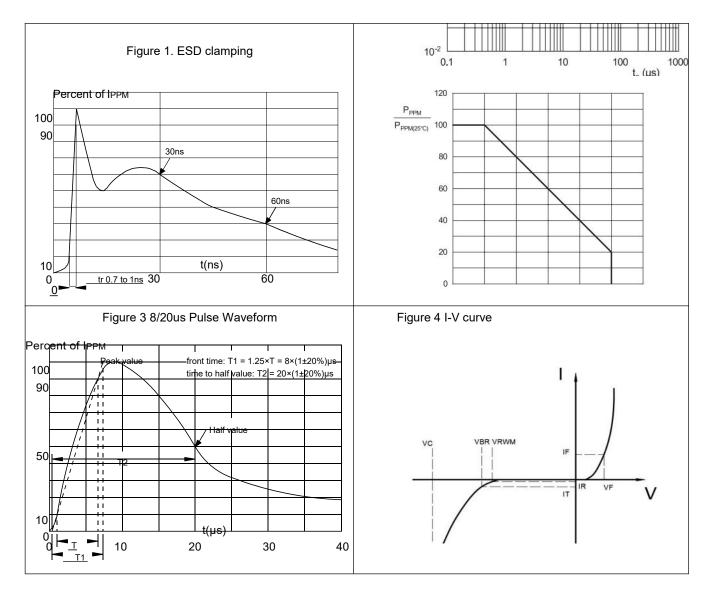
Parameters	Symbol	conditions	Min.	Тур.	Max.	Unit
Reverse stand-off voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =24V			1	uA
		I _{PP} =1A; TP=8/20us		8.5		
Clamping Voltage	V _{CL}	I _{PP} =4.5A; TP=8/20us		12		V
Junction capacitance	CJ	I/O to GND; V _R =0V; f=1MHz		0.6		pF
		I/O to I/O; V _R =0V; f=1MHz		0.3		pF

Table-4 Electrical Characteristics



CSL05Y4U

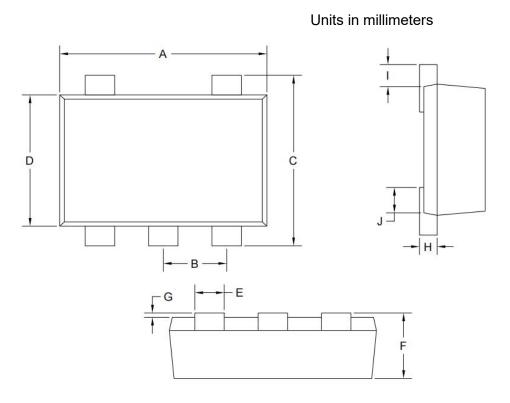
Ratings and Characteristic Curves (TA =25°Cunless otherwise noted)





CSL05Y4U

Dimension

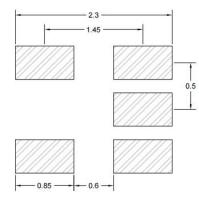


symbol	Α	B	С	D	E	F	G	Н	I	J
Min.	1.50	0.50	1.55	1.10	0.15	0.50	0.00	0.10	0.10	0.15
Max.	1.70	0.60	1.70	1.25	0.30	0.60	0.05	0.18	0.30	0.20

Table-5	product dimensions
---------	--------------------



Recommended Land Pattern



Note:

- 1. Controlling dimension: in millimeters
- 2. General tolerance: ±0.05mm
- 3. The pad layout is for reference only

Revision history of Specification

Version	Change Items	Effective Date	
1.0	Initial Release	23-Dec-2021	