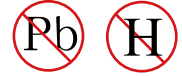




Low Capacitance ESD Protection Diode

**Features**

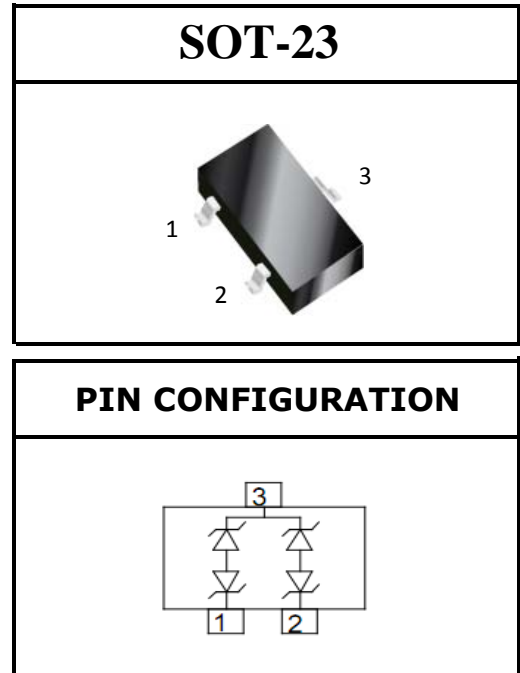
- Low capacitance : 11pF (typ.)
- Reverse standoff voltage : 24V
- IEC61000-4-2 (ESD) : ±15kV (air)
- IEC61000-4-2 (ESD) : ±8kV (contact)
- IEC61000-4-5 (Surge) : 3A (8/20μs)
- Marking : 24BC

Main applications

- Data lines
- Industrial Controls
- Computers and peripherals
- Portable instrumentation
- Peripherals
- Notebook Computers
- Set-Top Box
- Projection TV
- Audio and video equipment
- Subscriber Identity Module (SIM) card protection

Ordering Information

Device	Qty per Reel	Reel Size
YT1124CS	3000	7Inch

**Maximum Ratings (TA=25°C unless otherwise noted)**

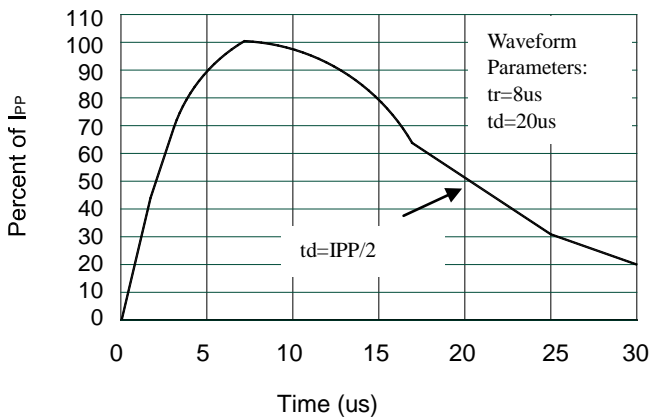
Parameter	Symbol	Test conditions	Limit	Unit
ESD Rating per IEC61000-4-2	V _{ESD}	Contact	±8	kV
		Air	±15	
Peak pulse power	P _{PK}	tp = 8/20 μs	200	W
Peak Pulse Current	I _{PP}	tp = 8/20 μs	3	A
Operating temperature Range	T _J		-55~+ 150	°C
Storage temperature Range	T _{STG}		-55~+ 150	°C

Electrical Characteristics (TA=25°C unless otherwise noted)

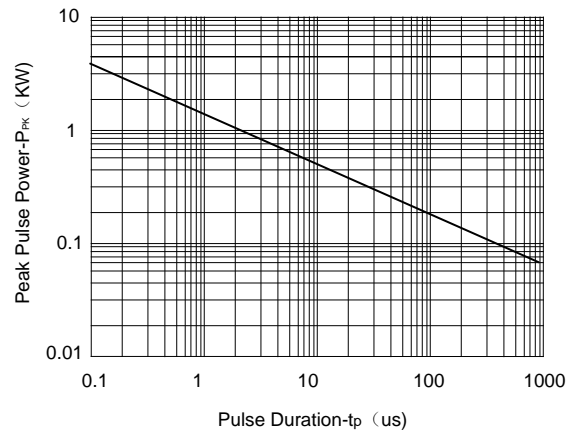
Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Reverse working voltage	V _{RWM}		-	-	24	V
Breakdown voltage	V _{BR}	I _T =1mA	26.7	-	-	V
Reverse leakage current	I _R	V _{RWM} =24V	-	-	1	μA
Surge clamping voltage (tp=8/20us)	V _C	I _{PP} =1A	-	-	43	V
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	11	15	pF

DEVICE CHARACTERISTICS

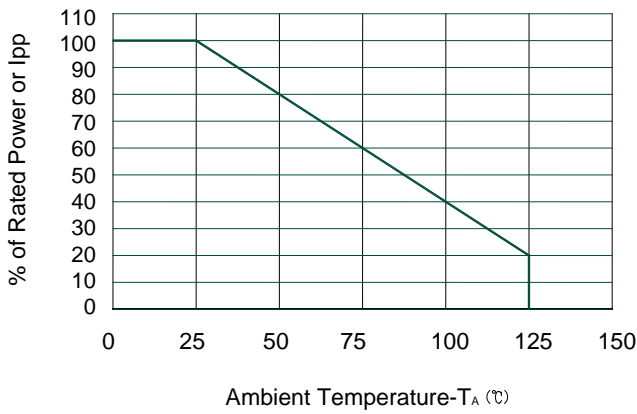
YT1124CS



Pulse Waveform

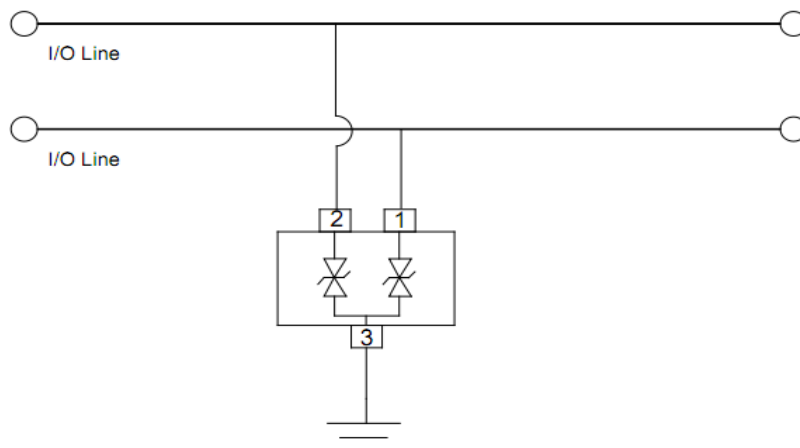


Non-Repetitive Peak Pulse Power vs. Pulse Time



Power Derating Curve

Typical applications

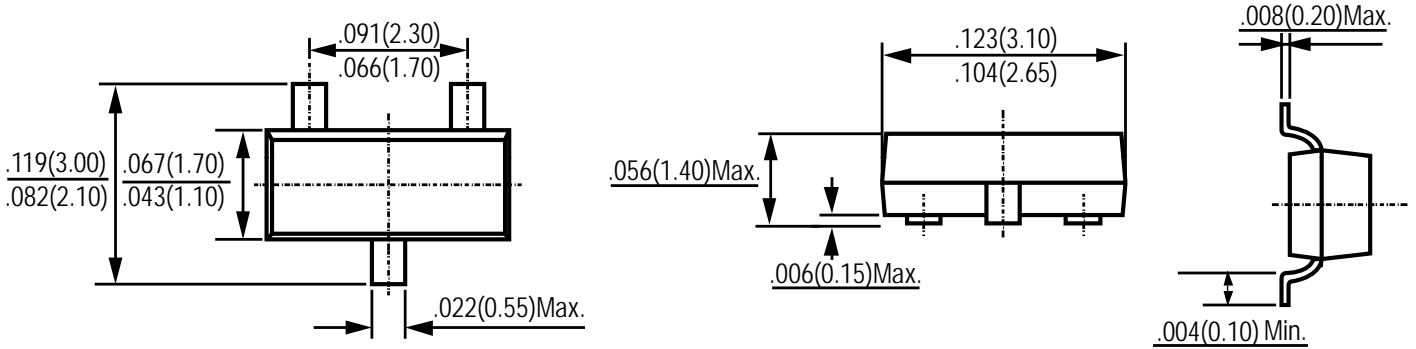


Two I/O Lines Bi-direction Protection

PACKAGE OUTLINE & DIMENSIONS

YT1124CS

Package Outline Dimensions



SOT-23

Dimensions in inches and (millimeters)

Suggested Pad Layout

Dimension	Outline	SOT-23 (mm)
A		2.90
C		0.80
D		0.90
E		2.00
F		1.35

