

Features:

- 100 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects Two Lines
- Low Clamping Voltage
- Working Voltages : 5V
- Low Leakage Current
- IEC61000-4-2 (ESD) ±17kV (air), ±10kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (LIGHTING) 4A (8/20μs)

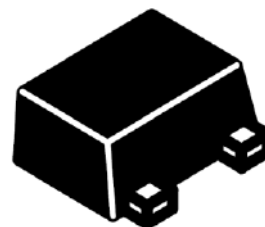
Applications:

- Cellular Handsets & Accessories
- Antennas
- High Speed I/O Lines
- Keypads, Side Keys, LCD Displays
- Battery, Power Lines
- Notebooks & Desktop Computers
- Portable Instrumentation

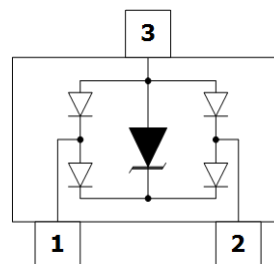
Mechanical Characteristics

- SOT-723 Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 1.3 Milligrams (Approximate)
- Quantity Per Reel : 8,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free
- Device Marking: M5

SOT-723



Pin Configuration



Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

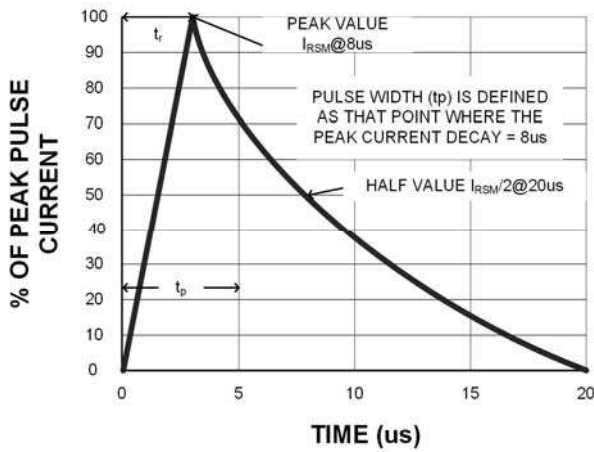
Parameter	Symbol	Value	Unit
Peak Pulse Current (8/20μs)	Ppp	100	W
ESD per IEC 61000-4-2 (Air)	VESD	±17	Kv
ESD per IEC 61000-4-2 (Contact)		±10	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	TSTJ	-55 to +150	°C

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

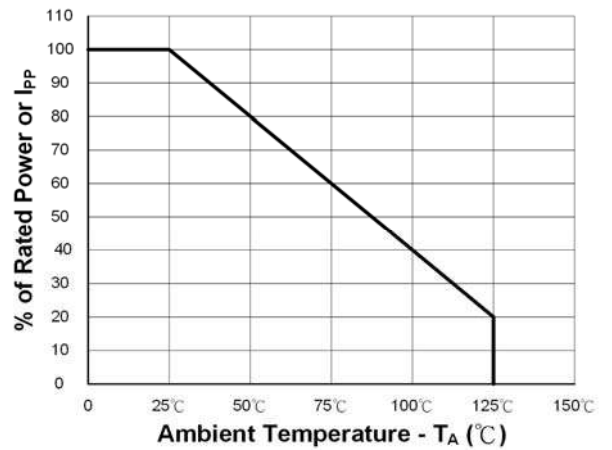
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	$I_T = 1mA$	6			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A$ (8 x 20 μs pulse)			12	V
Clamping Voltage	V_C	$I_{PP} = 4A$ (8 x 20 μs pulse)			25	V
Junction Capacitance	C_J	$V_R = 0V$, $f = 1MHz$		0.3		pF

TYPIC CHARACTERISTICS

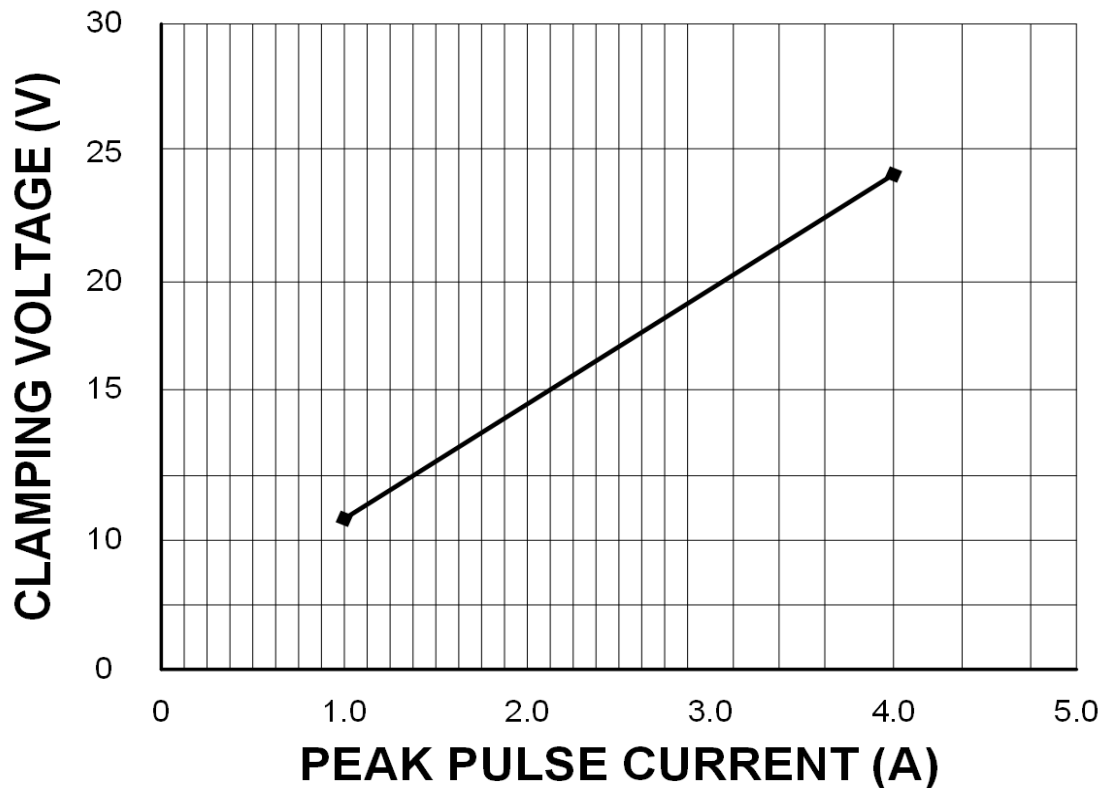
8 x 20 μ s Waveform



Power Derating Curve

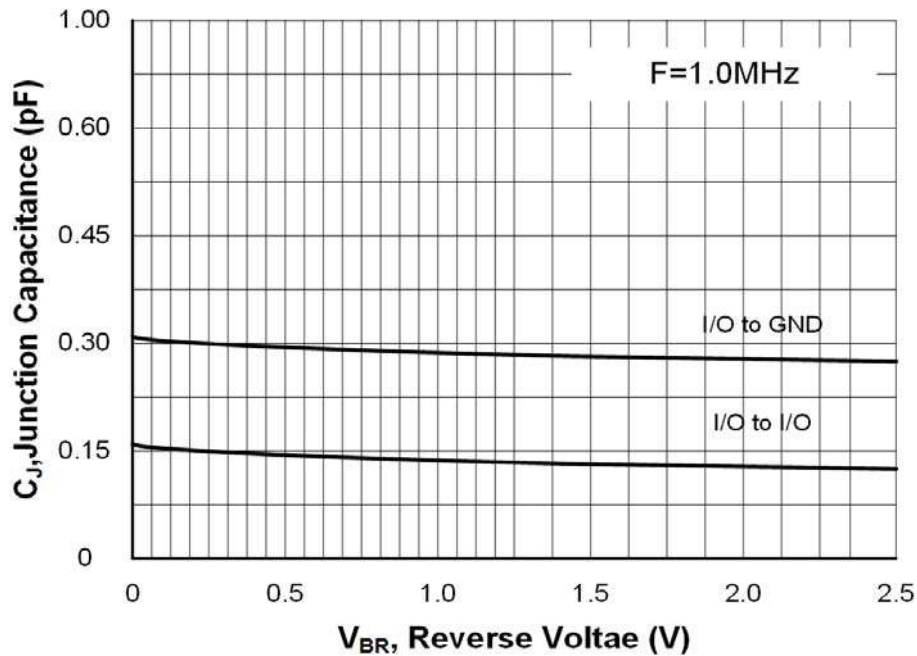


Clamping Voltage vs. Peak Pulse Current ($t_p=8/20\mu s$)

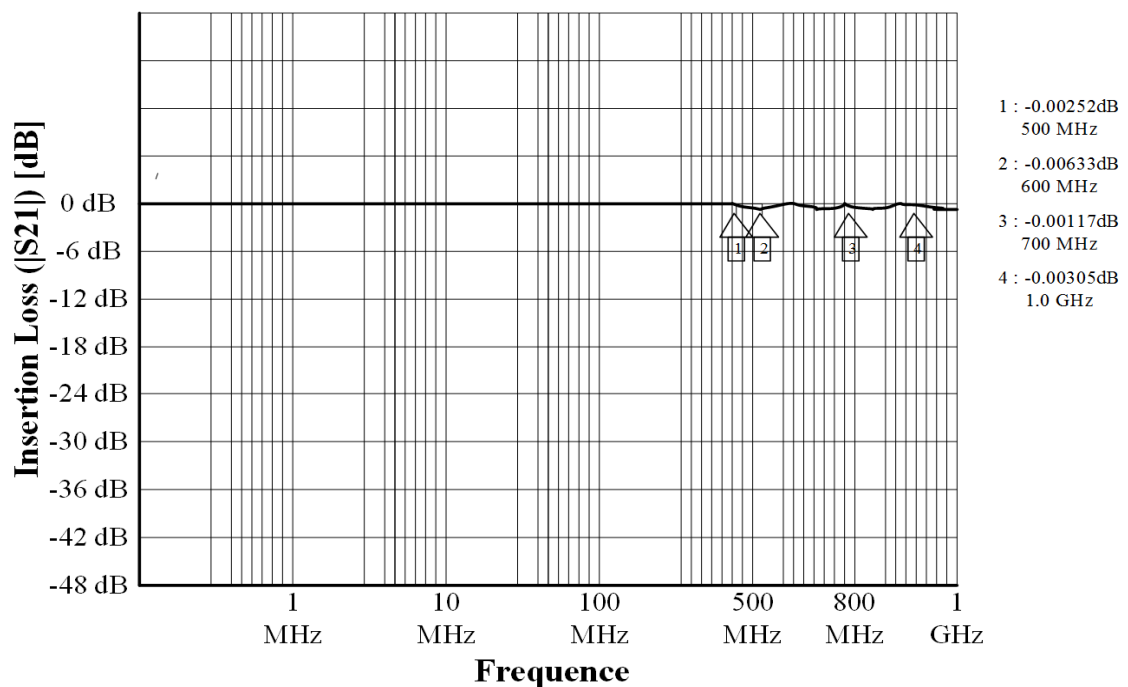


TYPIC CHARACTERISTICS

Typic Capacitance vs. Reverse Voltage

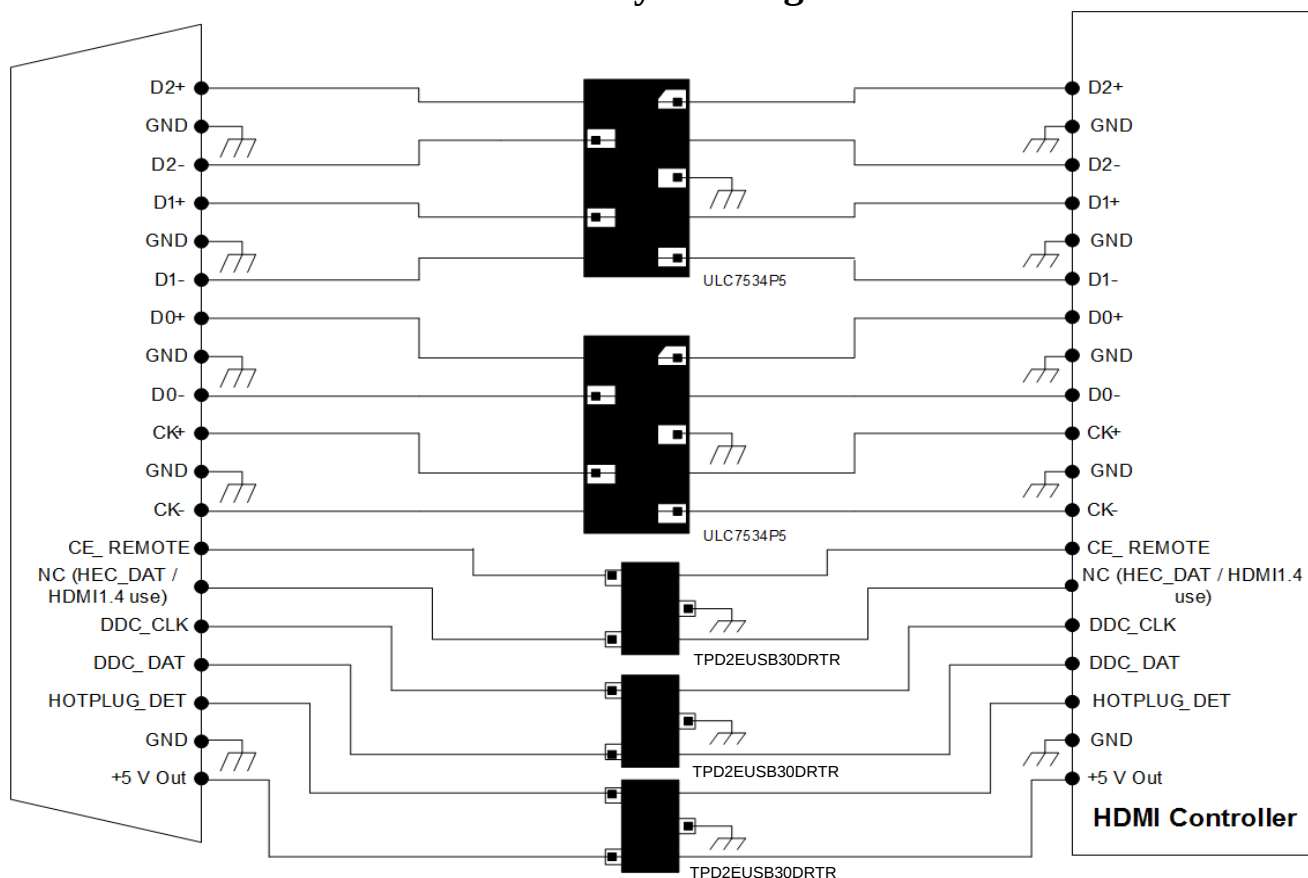


Insertion Loss (S21)

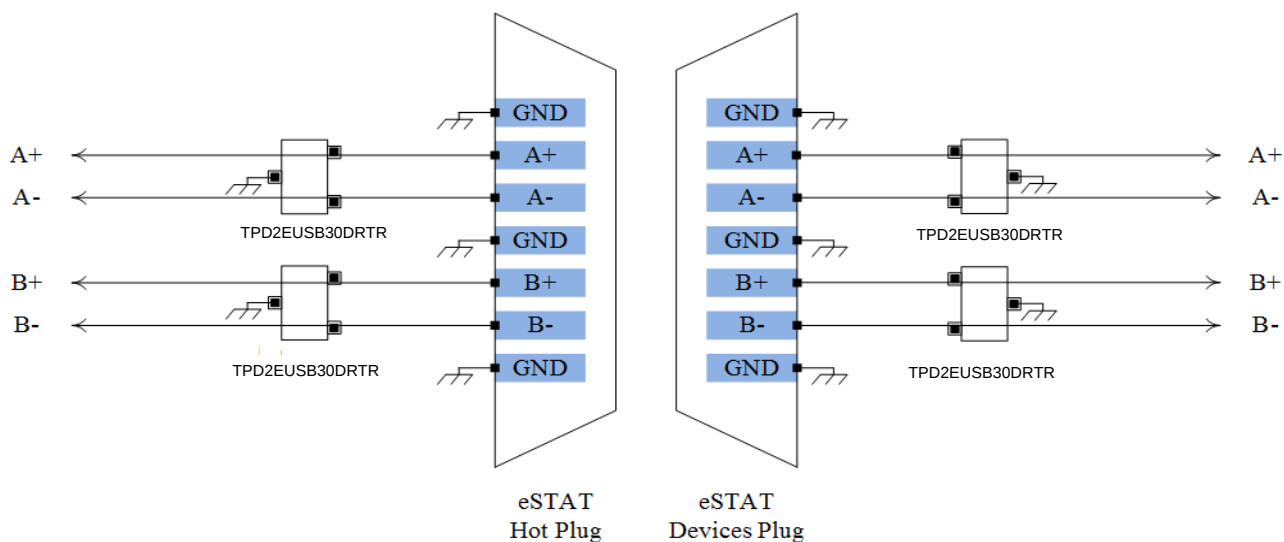


Layout Diagrams

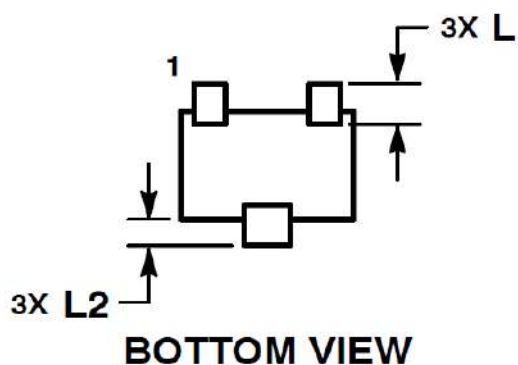
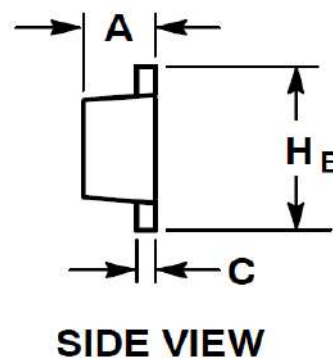
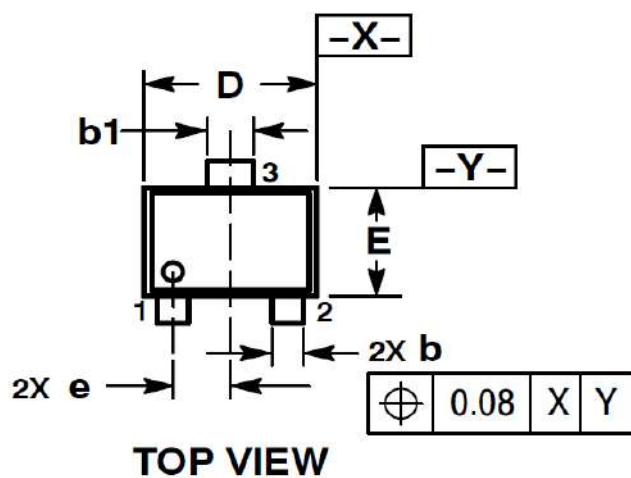
HDMI Layout Diagram



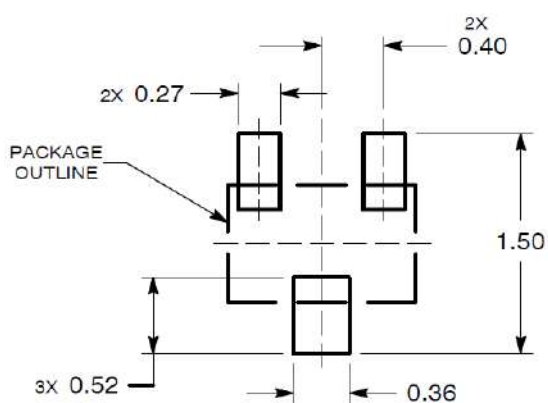
eSTAT Layout Diagram



SOT-723 PACKAGE OUTLINE & DIMENSIONS



* OLDERING FOOTPRINT



DIM	MILLIMETERS		
	MIN	NOM	MAX
A	0.45	0.50	0.55
b	0.15	0.21	0.27
b1	0.25	0.31	0.37
C	0.07	0.12	0.17
D	1.15	1.20	1.25
E	0.75	0.80	0.85
e	0.40 BSC		
H E	1.15	1.20	1.25
L	0.29 REF		
L2	0.15	0.20	0.25