

Features:

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

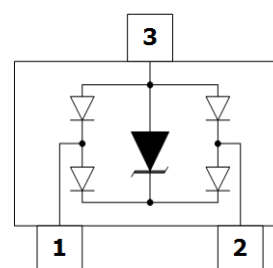
SOT-723



Applications:

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

Pin Configuration



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

Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

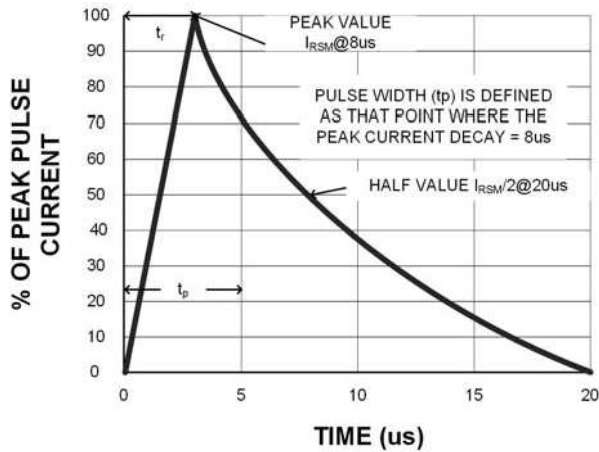
Parameter	Symbol	Value	Unit
Peak Pulse Current (8/20 μs)	P _{pp}	100	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 15	Kv
ESD per IEC 61000-4-2 (Contact)		± 8	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

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

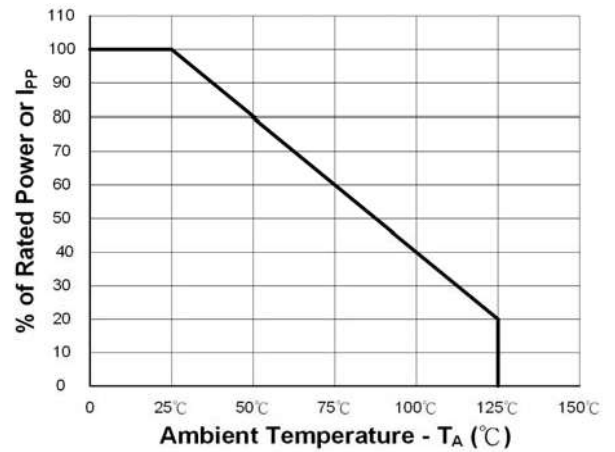
Part Number	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
KWULC0502M3Q	M5	5	6	1	12	25	4	1	0.3

TYPIC CHARACTERISTICS

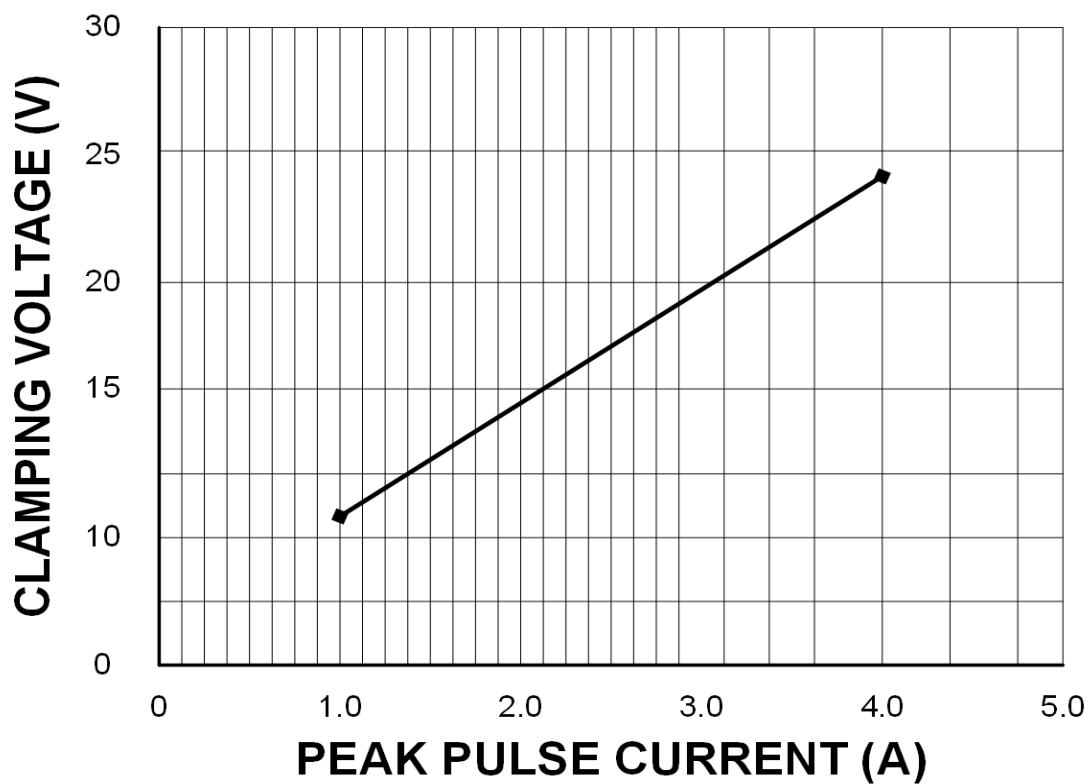
8 x 20 μ s Waveform



Power Derating Curve

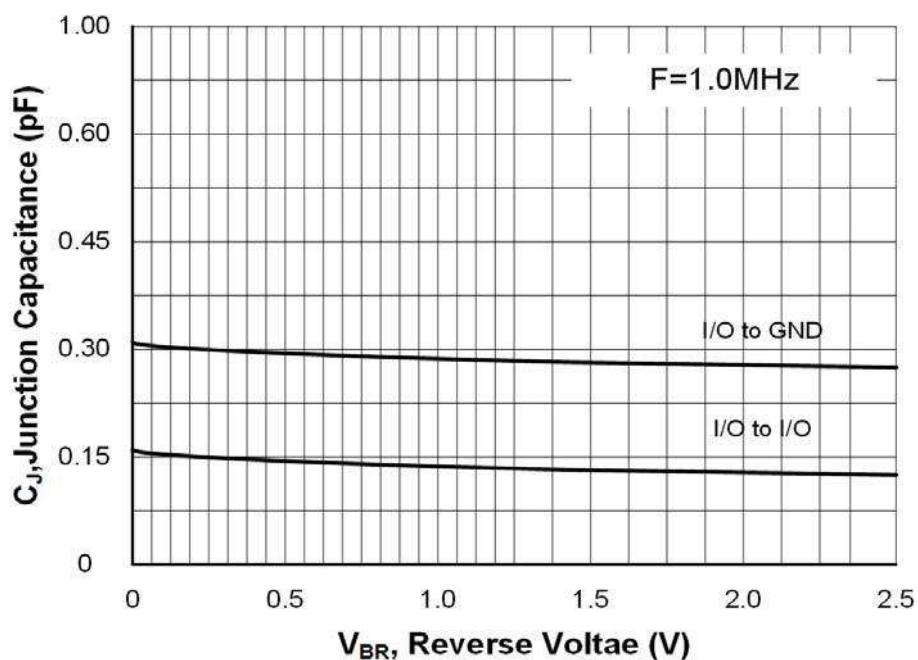


Clamping Voltage vs. Peak Pulse Current ($t_p=8/20\mu s$)

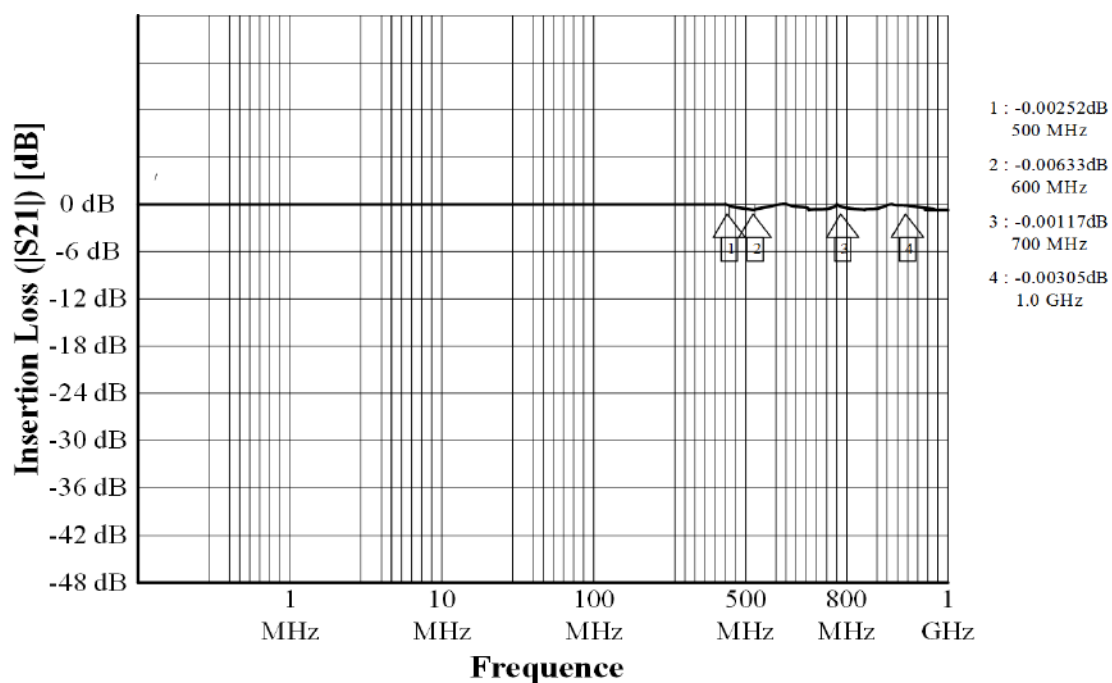


TYPIC CHARACTERISTICS

Typic Capacitance vs. Reverse Voltage

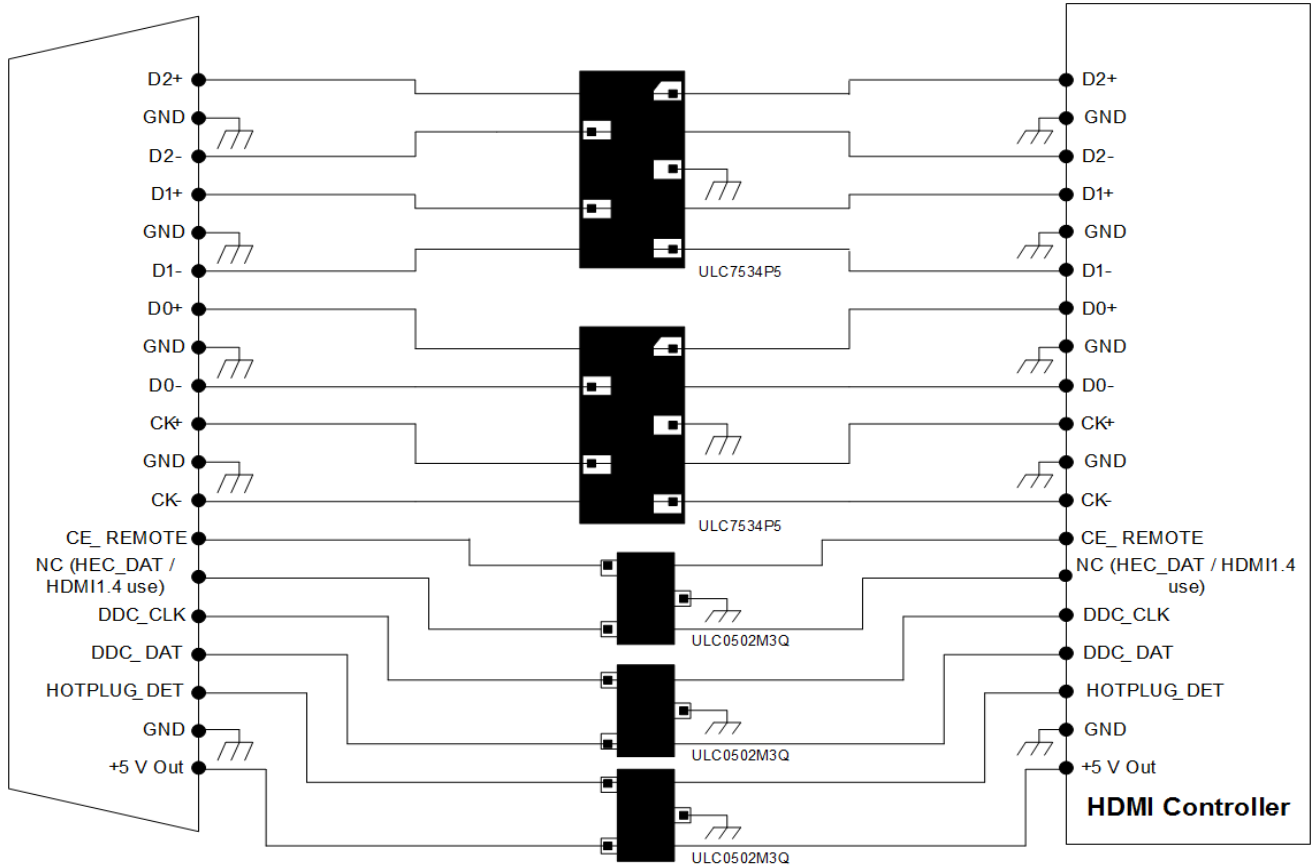


Insertion Loss (S21)

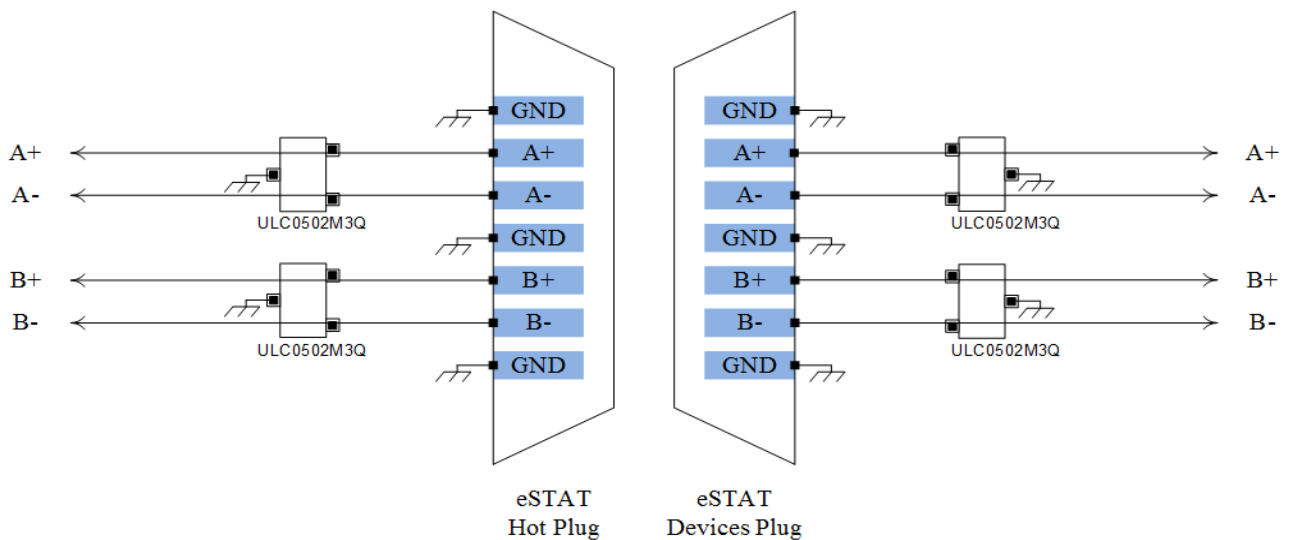


Layout Diagrams

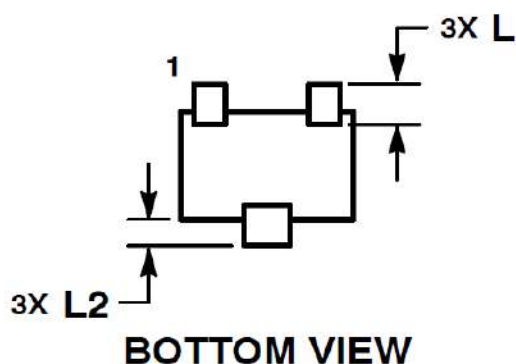
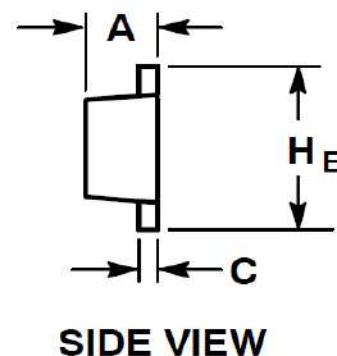
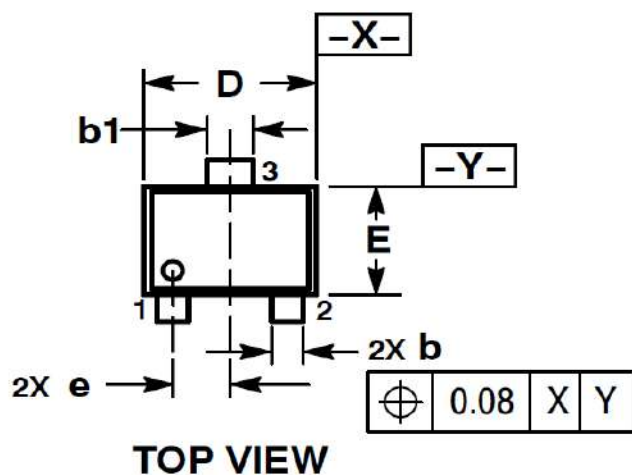
HDMI Layout Diagram



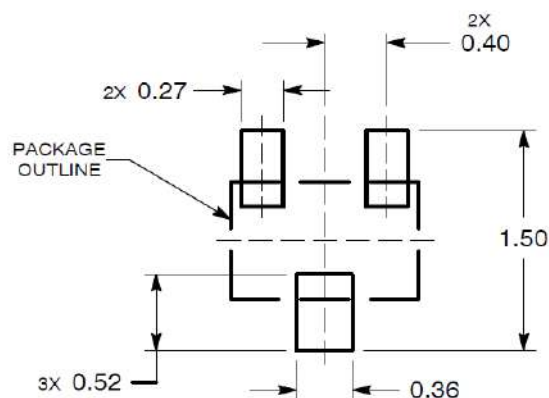
eSTAT Layout Diagram



SOT-723 PACKAGE OUTLINE & DIMENSIONS



* SOLDERING 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