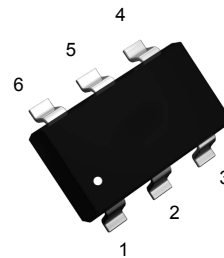
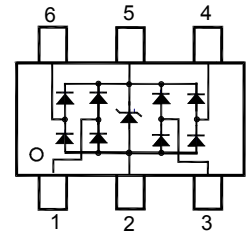


Features

- Low clamping voltage
- Low capacitance



SOT-23-6L



Schematic Diagram

1. I/O1 2. GND 3. I/O2
4. I/O3 5. V_{CC} 6. I/O4

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

Parameter	Symbol	Max.	Unit
Peak Pulse Power (T _P =8/20μS)	P _{PK}	300	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)			
Peak Pulse Current (T _P =8/20μS)	I _{PP}	12	A
Operation Junction Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage, @ Pin 5 to 2	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage, @ Pin 5 to 2	V _{(BR)R}	I _T =1mA	6	-	-	V
Reverse Current, @ Pin 5 to 2	I _R	V _{RWM} =5V	-	-	5	μA
Forward Voltage	V _F	I _F =15mA	-	-	1.2	V
Clamping Voltage, @ Any I/O Pin to Ground	V _C	I _{PP} =1A, T _P =8/20μS	-	-	12.5	V
		I _{PP} =5A, T _P =8/20μS	-	-	17.5	
		I _{PP} =12A, T _P =8/20μS	-	-	25	
Junction Capacitance, @ Any I/O Pin to Ground	C _J	V _R =0V, f=1MHz	-	-	5	pF
Junction Capacitance, @ Between I/O Pins			-	0.7	-	

Typical Characteristic Curves

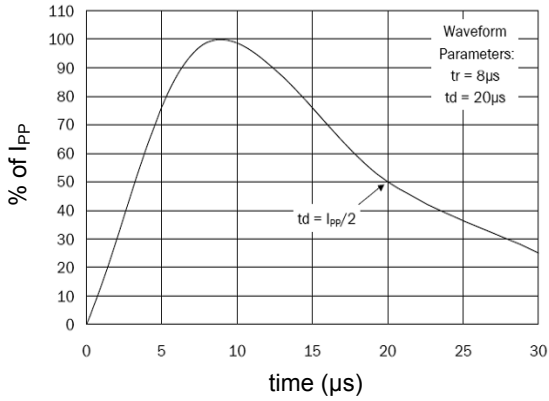


Figure 1. Pulse Waveform

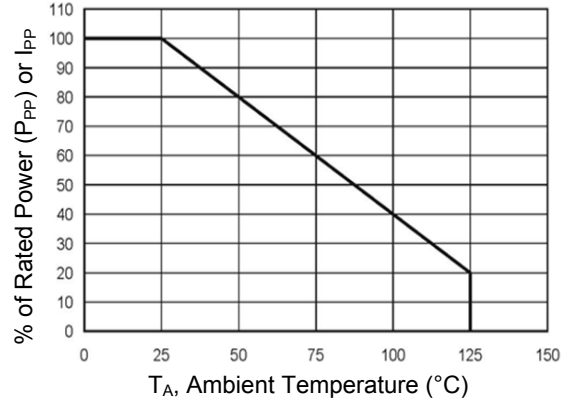


Figure 2. Pulse Derating Curve

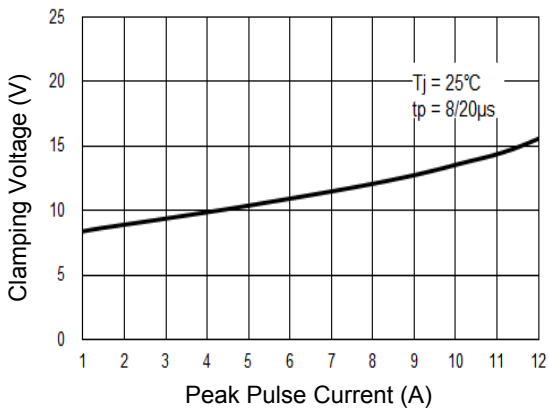


Figure 3. Clamping Voltage Curve

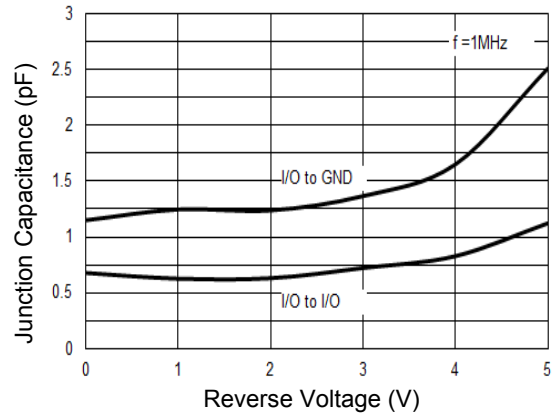


Figure 4. Junction Capacitance

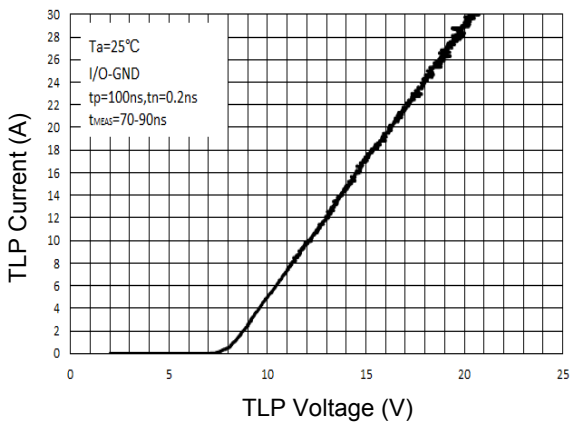
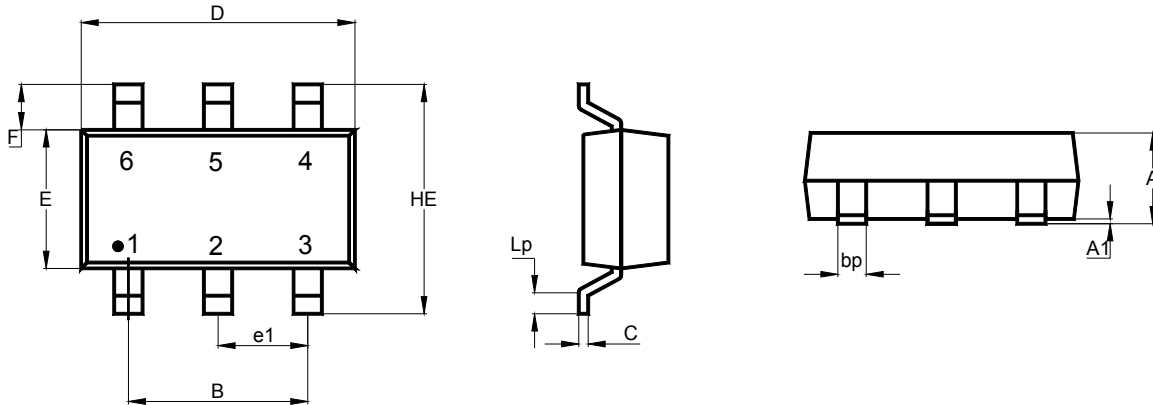


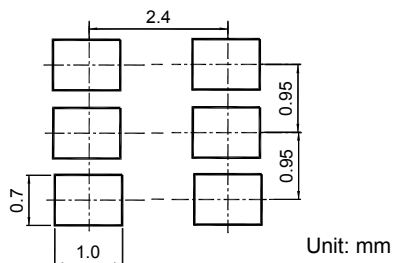
Figure 5. TLP Curve

Package Outline Dimensions (SOT-23-6L)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.000	1.200	0.039	0.047
A1	0.000	0.100	0.000	0.004
B	1.700	2.100	0.067	0.083
C	0.080	0.200	0.003	0.008
D	2.700	3.100	0.106	0.122
E	1.300	1.700	0.051	0.067
e1	0.950 TYP.		0.037 TYP.	
F	0.600	0.650	0.024	0.026
HE	2.600	3.000	0.102	0.118
Lp	0.200	0.600	0.008	0.024
bp	0.300	0.500	0.012	0.020

Recommended Pad Layout



Order Information

Device	Package	Marking	Carrier	Quantity
GSER5U007	SOT-23-6L	V5	Tape & Reel	3,000pcs / Reel