

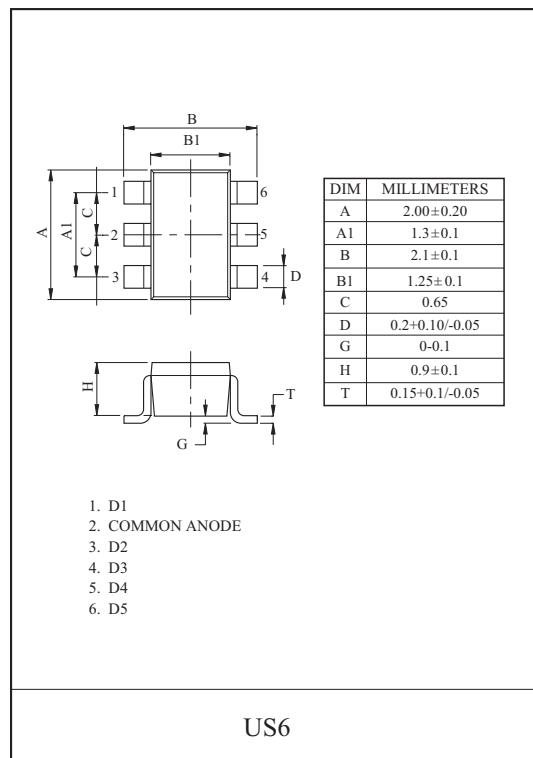
Protection in Portable Electronics Applications.

FEATURES

- 100 Watts peak pulse power ($t_p=8/20 \mu s$)
- Transient protection for data lines to IEC 61000-4-2(ESD) 15kV(Air), 8kV(Contact). IEC 61000-4-4(EFT) 40A ($t_p=5/50ns$) IEC 61000-4-5(Lightning) 4.2A ($t_p=8/20 \mu s$)
- Protects five I/O lines.
- Low clamping voltage.
- Low operating and leakage current.
- Small package for use in portable electronics.

APPLICATIONS

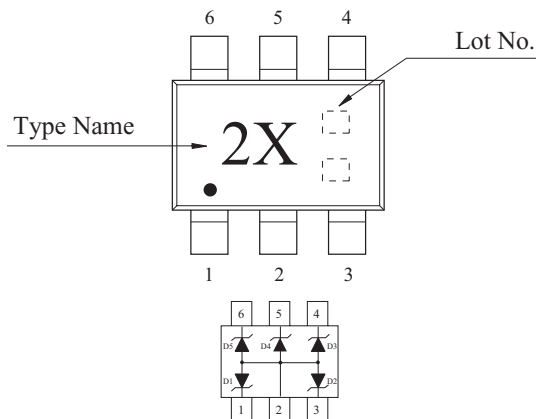
- Cell phone handsets and accessories.
- Cordless phones.
- Personal digital assistants (PDA's)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Set-Top Box, DVD Player.
- Digital Camera.



MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ($t_p=8/20 \mu s$)	P_{PK}	100	W
Peak Pulse Current ($t_p=8/20 \mu s$)	I_{PP}	4.2	A
Operating Temperature	T_j	-55 150	°C
Storage Temperature	T_{stg}	-55 150	°C

Marking

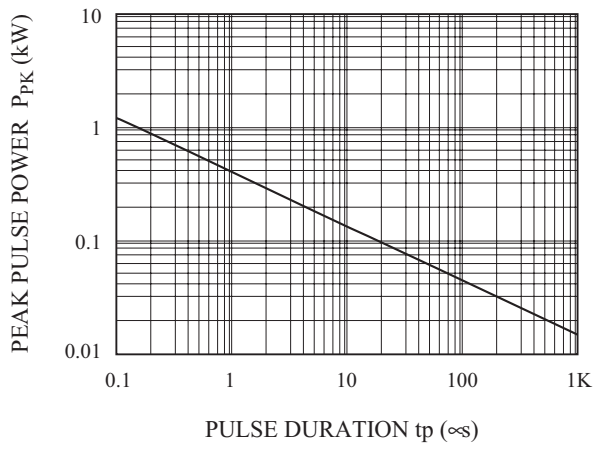


ELECTRICAL CHARACTERISTICS (Ta=25°C)

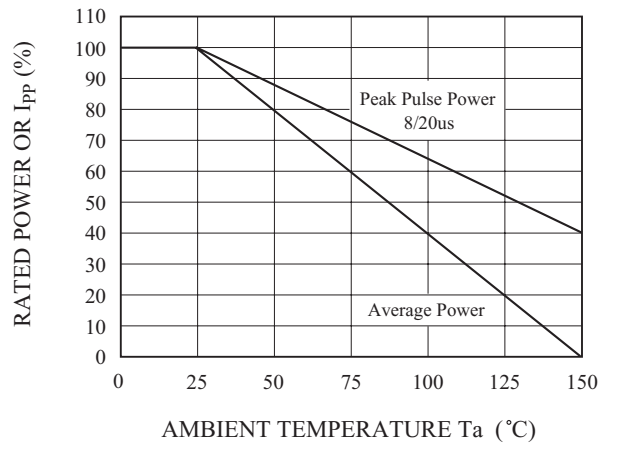
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	12	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	13.3	-	-	V
Reverse Leakage Current	I_R	$V_{RWM}=12V$	-	-	1	μA
Clamping Voltage	V_C	$I_{PP}=4.2A, t_p=8/20 \mu s$	-	-	24	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$ Between I/O Pins and GND	-	-	60	pF

PG12FXUS6

NON-REPETITIVE PEAK PULSE
POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

