

Protection in Portable Electronics Applications.

### FEATURES

- 350 Watts peak pulse power (tp=8/20µs)
- Transient protection for data lines to  
IEC 61000-4-2(ESD) 15kV(Air), 8kV(Contact)  
IEC 61000-4-4(EFT) 40A(tp=5/50ns)  
IEC 61000-4-5(Lightning) 8A(tp=8/20µs)
- Unidirectional protection of five I/O lines.
- Low clamping voltage.
- Low operating and leakage current.
- Small package for use in portable electronics.

### APPLICATIONS

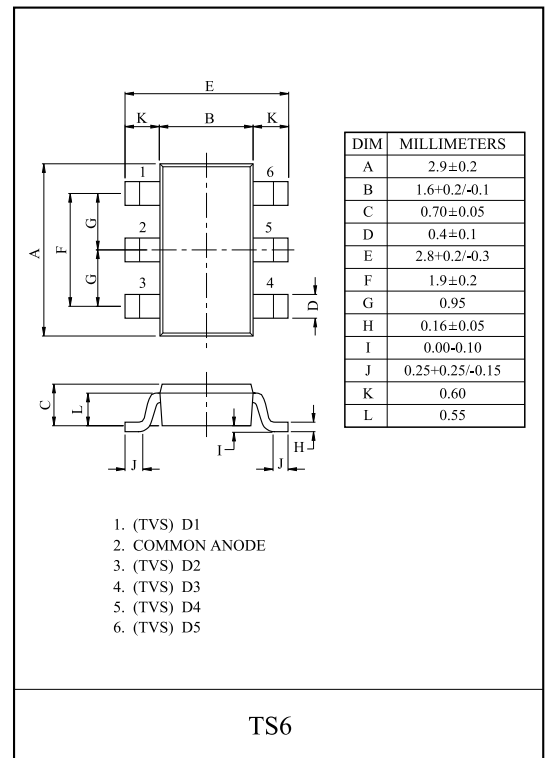
- Cell phone handsets and accessories.
- Cordless Phones.
- Personal digital assistants (PDA s)
- Notebooks, desktops PC & servers.
- Portable instrumentation.
- Set-Top Bosx, DVD Player.
- Digital Camera.

### MAXIMUM RATING (Ta=25°C)

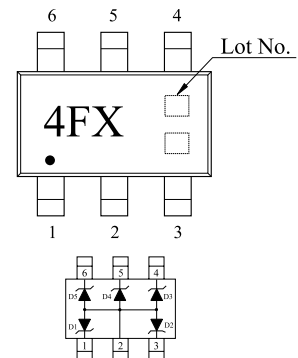
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20µs)	P <sub>PK</sub>	350	W
Peak Pulse Current (tp=8/20µs)	I <sub>PP</sub>	8	A
Operating Temperature	T <sub>j</sub>	-55 ~ 150	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ 150	°C

### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	24	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>t</sub> =1mA	26.7	-	-	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =24V	-	-	1	µA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =5A, tp=8/20µs	-	-	40	V
		I <sub>PP</sub> =8A, tp=8/20µs	-	-	44	
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz Between I/O Pins and GND	-	60	75	pF

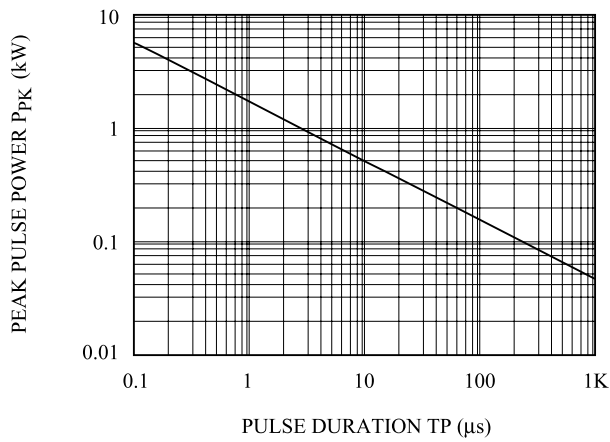


### Marking

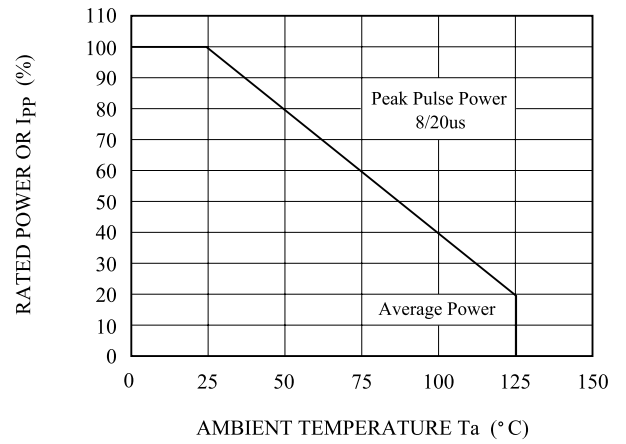


# PG24FXTS6

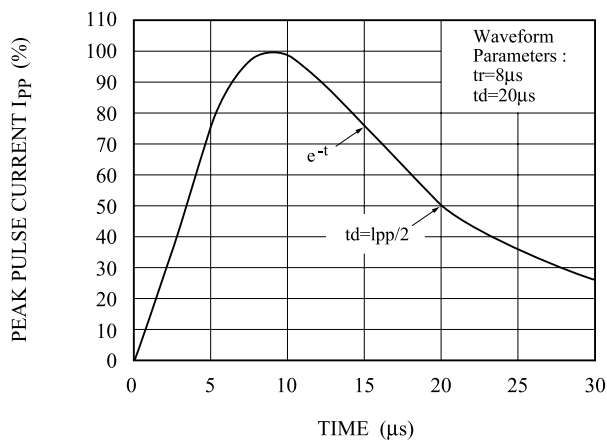
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



CLAMPING VOLTAGE VS. PEAK PULSE CURRENT

