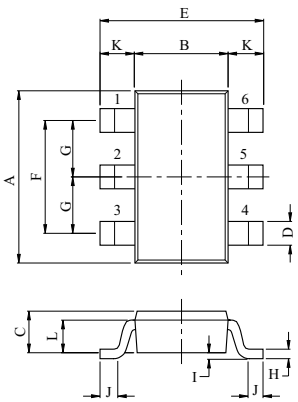
# PG24FXTS6

**TVS Diode Array for ESD Protection in Portable Electronics**

Protection in Portable Electronics Applications.

## FEATURES

- 350 Watts peak pulse power (tp=8/20㎲)
- 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=8/20㎲)
- Unidirectional protection of five I/O lines.
- Low clamping voltage.
- Low operating and leakage current.
- Small package for use in portable electronics.




| DIM | MILLIMETERS |
|---|---|
| A | 2.9±0.2 |
| B | 1.6+0.2/-0.1 |
| C | 0.70±0.05 |
| D | 0.4±0.1 |
| E | 2.8+0.2/-0.3 |
| F | 1.9±0.2 |
| G | 0.95 |
| H | 0.16±0.05 |
| I | 0.00-0.10 |
| J | 0.25+0.25/-0.15 |
| K | 0.60 |
| L | 0.55 |

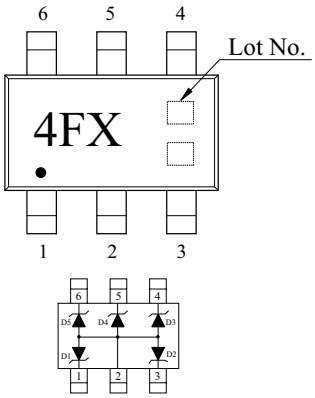
1. (TVS) D1
2. COMMON ANODE
3. (TVS) D2
4. (TVS) D3
5. (TVS) D4
6. (TVS) D5

TS6

## 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.

## Marking



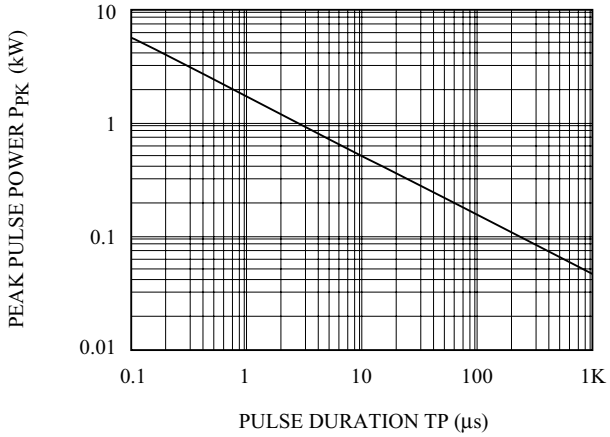

## MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|---|---|---|
| Peak Pulse Power (tp=8/20㎲) | $P_{PK}$ | 350 | W |
| Peak Pulse Current (tp=8/20㎲) | $I_{PP}$ | 8 | A |
| Operating Temperature | $T_j$ | -55 ~ 150 | ℃ |
| Storage Temperature | $T_{stg}$ | -55 ~ 150 | ℃ |

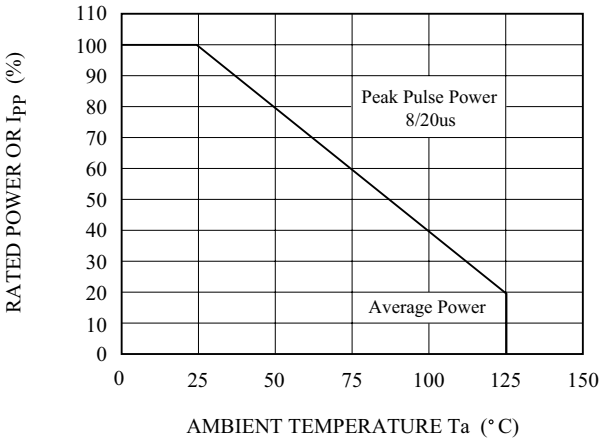
## ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Reverse Stand-Off Voltage | $V_{RWM}$ | - | - | - | 24 | V |
| Reverse Breakdown Voltage | $V_{BR}$ | $I_t$=1mA | 26.7 | - | - | V |
| Reverse Leakage Current | $I_R$ | $V_{RWM}$=24V | - | - | 1 | ㎂ |
| Clamping Voltage | $V_C$ | $I_{PP}$=5A, tp=8/20㎲ | - | - | 40 | V |
| | | $I_{PP}$=8A, tp=8/20㎲ | - | - | 44 | |
| Junction Capacitance | $C_J$ | $V_R$=0V, f=1MHz<br>Between I/O Pins and GND | - | 60 | 75 | pF |

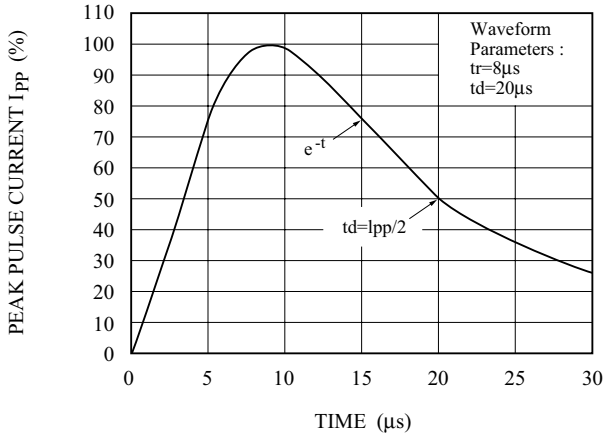
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME




POWER DERATION CURVE




PULSE WAVEFORM




CLAMPING VOLTAGE VS. PEAK PULSE CURRENT