



## Product Overview

### P6KE10A: Transient Voltage Suppressor, Unidirectional, 10 V, 600 Watt

For complete documentation, see the data sheet

#### Product Description

The P6KE6.8A series is designed to protect voltage sensitive components from high voltage, high energy transients. They have excellent clamping capability, high surge capability, low zener impedance and fast response time. The P6KE6.8A series is supplied in ON Semiconductor's exclusive, cost-effective, highly reliable Surmetic axial leaded package and is ideally-suited for use in communication systems, numerical controls, process controls, medical equipment, business machines, power supplies and many other industrial/consumer applications.

#### Features

- Working Peak Reverse Voltage Range - 5.8 to 171 V
- Peak Power - 600 Watts @ 1 ms
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Maximum Clamp Voltage @ Peak Pulse Current
- Low Leakage < 5  $\mu$ A above 10 V
- UL 497B for Isolated Loop Circuit Protection
- Maximum Temperature Coefficient Specified
- Response Time is Typically < 1 ns

Mechanical Characteristics:

- CASE</B>: Void-free, transfer-molded, thermosetting plastic
- FINISH</B>: All external surfaces are corrosion resistant and leads are readily solderable

#### Part Electrical Specifications

Product	Compliance	Status	Dir	V <sub>(BR)</sub> Typ (V)	P <sub>PK</sub> Max (W)	V <sub>RWM</sub> Max (V)	I <sub>R</sub> Max (uA)	V <sub>C</sub> Max (V)	Package Type
P6KE10AG	Pb-free Halide free	Active	Unidirectional	10	600	8.55	10	14.5	Surmetic 40
P6KE10ARLG	Pb-free Halide free	Active	Unidirectional	10	600	8.55	10	14.5	Surmetic 40

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

Created on: 7/11/2015