

## 600W Transient Voltage Suppressors

**(Pb)** Lead(Pb)-Free

### Feature:

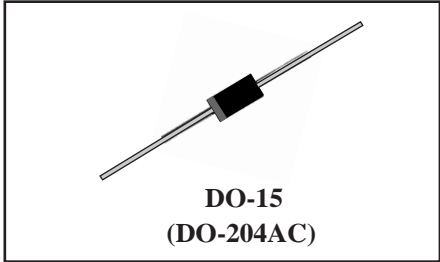
- \* 600 Watt Peak Power Dissipation
- \* Glass Passivated Die Construction
- \* Excellent Clamping Capability Fast Response Time
- \* High Temperat Soldering Guaranteed : 265°C/10 sec/.375." (9.5mm) Lead Length, 51bs., (2.3kg) Tension.

**Peak Pulse Power**  
600 Watt

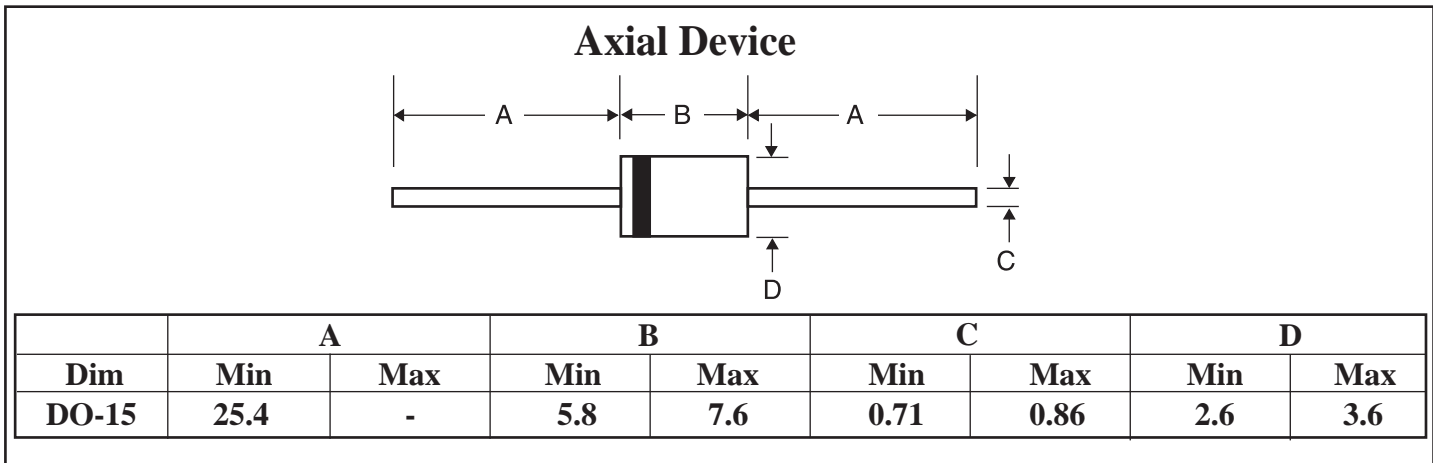
**Stand-off Voltage**  
550 VOLTS

### Mechanical Data

- \* Case: JEDEC DO-15 molded Plastic.
- \* Terminals: Axial Leads, Solderable per MIL-STD-750, Method 2026
- \* Polarity: Color Band Denotes Cathode Except Bipolar
- \* Mounting Position: Any
- \* Weight: 0.4grams(approx), 0.015ounce.



### DO-15 Outline Dimensions



## Maximum Ratings ( $T_A=25^\circ\text{C}$ Unless otherwise Noted)

Characteristics	Symbol	Value	Unit
Peak Pulse Power Dissipation at $T_A=25^\circ\text{C}$ , $t_p=1.0\text{ ms}$ (1)	$P_{PPM}$	600	W
Steady State Power Dissipation at $T_L=75^\circ\text{C}$ Lead Lengths .375"(9.5mm) (1)	$P_{M(AV)}$	5	W
Peak Forward Surge Current 8.3ms Single Half Sine-Wave, Superimposed on Rated Load(JEDEC Method)(3)	$I_{FSM}$	100	A
Operating and Storage Junction Temperature Range	$T_j, T_{STG}$	-55 to -175	$^\circ\text{C}$

NOTE: 1. Non-Repetitive Current Pulse, per FIG3 and Derated above  $T_A=25^\circ\text{C}$  per FIG2

2. Mounted on Copper Pads Area of  $1.6 \times 1.6$ "( $40 \times 40$ mm) per FIG.5.

3. 8.3ms Single Half Sine-Wave, or equivalent Square Wave, Duty Cycle=4 pulses per minutes Maximum.

## Electrical Characteristics

P6KE PART NUMBER	REVERSE STAND-OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ $I_T$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ $I_T$	TEST CURRENT $I_T$ (mA)	MAXIMUM CLAMPING VOLTAGE @ $I_{pp}$ $V_c(V)$	PEAK PULSE CURRENT $I_{pp}(A)$	REVERSE LEAKAGE @ $V_{RWM}$ $I_R(\mu A)$
P6KE 550C	473	498.0	601	1	788	0.9	5

For bidirectional type having  $V_{rwm}$  of 10 volts and less, the  $I_R$  limit is double.

For parts without A , the  $V_{BR}$  is  $\pm 10\%$