

### 600W Transient Voltage Suppressors

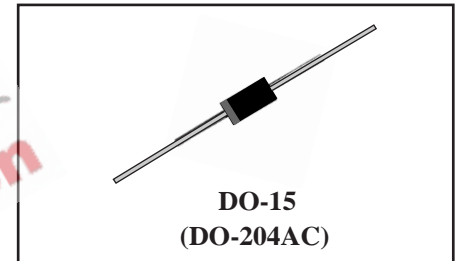
**Peak Pulse Power**  
**600 Watt**  
**Stand-off Voltage**  
**550 VOLTS**

#### 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.

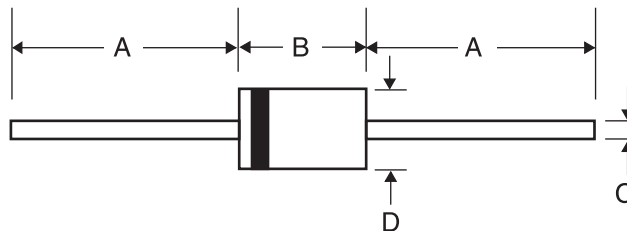
#### Mechanical Data

- \* 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

##### Axial Device



Dim	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
DO-15	25.4	-	5.8	7.6	0.71	0.86	2.6	3.6

## Maximum Ratings (T<sub>A</sub>=25 °C Unless otherwise Noted)

Characteristics	Symbol	Value	Unit
Peak Pulse Power Dissipation at T <sub>A</sub> =25 °C, tp=1.0 ms <sup>(1)</sup>	P <sub>PPM</sub>	600	W
Steady State Power Dissipation at TL=75 °C Lead Lengths .375"(9.5mm) <sup>(1)</sup>	P <sub>M(AV)</sub>	5	W
Peak Forward Surge Current 8.3ms Single Half Sine-Wave, Superimposed on Rated Load(JEDEC Method) <sup>(3)</sup>	I <sub>FSM</sub>	100	A
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to -175	°C

NOTE: 1. Non-Repetitive Current Pulse, per FIG3 and Derated above TA=25 °C per FIG2

2. Mounted on Copper Pads Area of 1.6 ×1.6"(40 × 40mm) 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 <sub>RWM</sub> (V)	BREAKDOWN VOLTAGE V <sub>BR</sub> (V) MIN.@I <sub>T</sub>	BREAKDOWN VOLTAGE V <sub>BR</sub> (V) MAX.@I <sub>T</sub>	TEST CURRENT I <sub>T</sub> (mA)	MAXIMUM CLAMPING VOLTAGE @I <sub>pp</sub> V <sub>c</sub> (V)	PEAK PULSE CURRENT I <sub>pp</sub> (A)	REVERSE LEAKAGE @V <sub>RWM</sub> I <sub>R</sub> (μA)
P6KE 550C	473	498.0	601	1	788	0.9	5

For bidirectional type having V<sub>rwm</sub> of 10 volts and less, the I<sub>R</sub> limit is double.

For parts without A , the V<sub>BR</sub> is ± 10%