

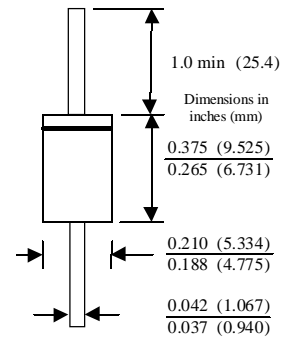
1.5KE6.8(C)A - 1.5KE440(C)A

Features

- Glass passivated junction.
- 1500W Peak Pulse Power capability at 1.0 ms.
- Excellent clamping capability.
- Low incremental surge resistance.
- Fast response time; typically less than 1.0 ps from 0 volts to BV for unidirectional and 5.0 ns for bidirectional.
- Typical I_R less than 1.0 μA above 10V.



DO-201AE
COLOR BAND DENOTES CATHODE



DEVICES FOR BIPOLAR APPLICATIONS

- Bidirectional types use CA suffix.
- Electrical Characteristics apply in both directions.

1500 Watt Transient Voltage Suppressors

Absolute Maximum Ratings*

$T_A = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Value	Units
P_{PPM}	Peak Pulse Power Dissipation at $T_A = 25^\circ C$, $T_P=1ms$	minimum 1500	W
I_{PPM}	Peak Pulse Current	see table	A
P_D	Steady State Power Dissipation .375 " lead length @ $T_A = 75^\circ C$	5.0	W
$i_{f(surge)}$	Peak Forward Surge Current superimposed on rated load (JEDEC method) (Note 1)	200	A
T_{stg}	Storage Temperature Range	-65 to +175	$^\circ C$
T_J	Operating Junction Temperature	-65 to +175	$^\circ C$

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Note 1: Measured on 8.3 ms single half-sine wave; Duty cycle = 4 pulses per minute maximum.

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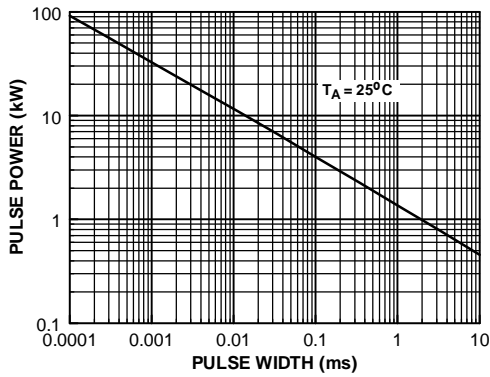
* For bidirectional parts with $V_{RWM} < 10V$, the I_R max limit is doubled.

Transient Voltage Suppressors (continued)

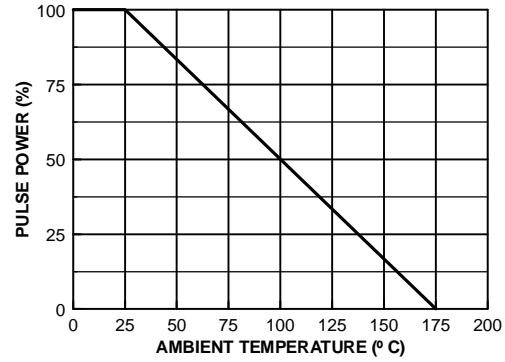
1.5KE6.8(C)A - 1.5KE440(C)A

Typical Characteristics

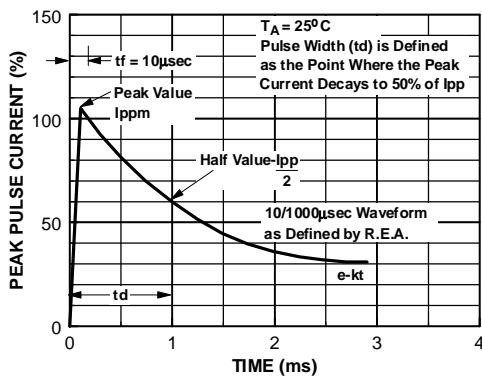
Peak Pulse Power Rating Curve



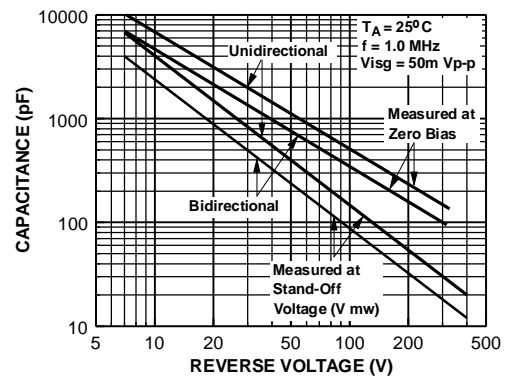
Pulse Derating Curve



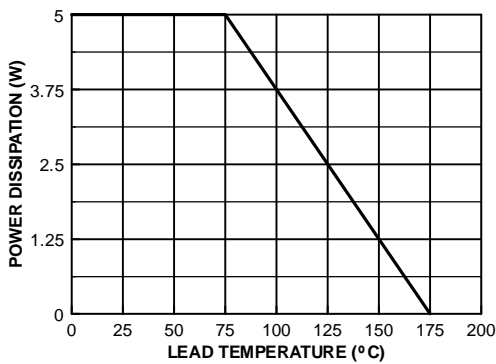
Pulse Waveform



Junction Capacitance



Steady State Power Derating Curve



Non-Repetitive Surge Current

