

P6KE6V8(C)A - P6KE440(C)A 600 Watt Transient Voltage Suppressors

Features

- Glass passivated junction.
- 600W Peak Pulse Power capability at 1.0ms.
- Excellent clamping capability.
- Low incremental surge resistance.
- Fast response time; typically less than 1.0ps from 0 volts to BV for unidirectional and 5.0ns for bidirectional.
- Typical I_R less than 1.0 μ A above 10V.



DO-15

COLOR BAND DENOTES CATHODE
ON UNIDIRECTIONAL DEVICES ONLY. NO

Applications

- Devices For Bipolar Applications.
- Bidirectional types use CA suffix.
- Electrical Characteristics apply in both directions.

Absolute Maximum Ratings* $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value
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Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Uni-directional Bi-directional (C) Device	Reverse Stand-off Voltage V_{RWM} (V)	Breakdown Voltage V_{BR} (V)		Test Current I_T (mA)	Clamping Voltage @ I_{PPM} V_C (V)	Peak Pulse Current I_{PPM} (A)	Reverse Leakage V_{RWM} I_R (μA)*	Temperature Coefficient V_{BR} (%/ $^\circ\text{C}$)
		Min.	Max.					
P6KE6V8(C)A	5.80	6.45	7.14	10	10.5	57.1	1000	0.057
P6KE7V5(C)A	6.40	7.13	7.88	10	11.3	53.1	500	0.061
P6KE8V2(C)A	7.02	7.79	8.61	10	12.1	50.0	200	0.065
P6KE9V1(C)A	7.78	8.65	9.55					

Typical Performance Characteristics

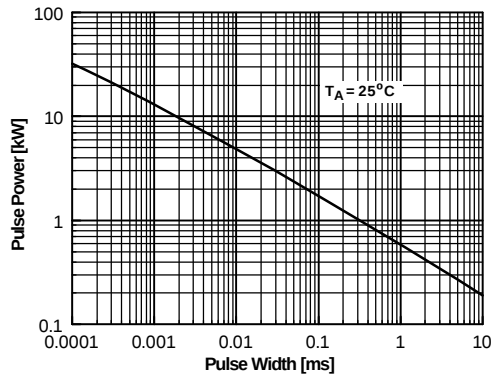


Figure 1. Peak Pulse Power Rating Curve

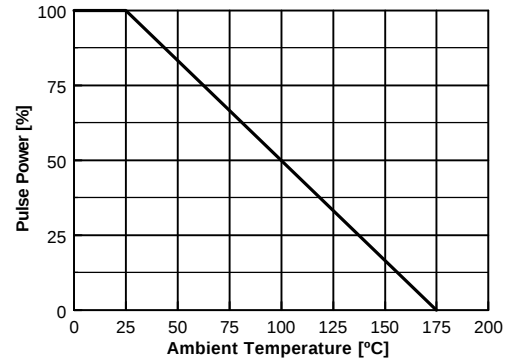


Figure 2. Pulse Derating Curve

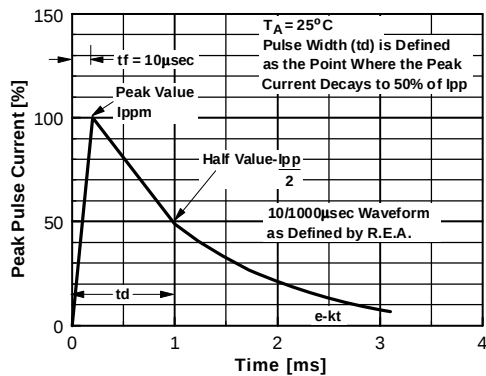
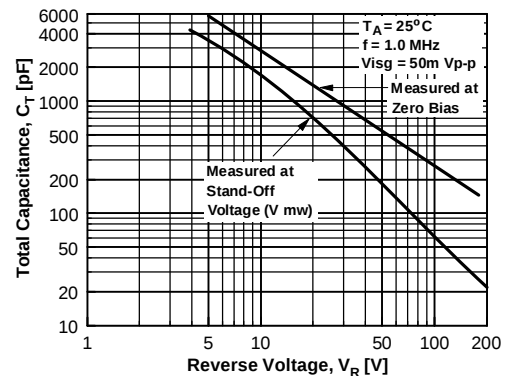


Figure 3. Pulse Waveform





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CorePLUS™	Green FPS™	Programmable Active Droop™	the
CorePOWER™	Green FPS™ e-Series™	QFET®	power®
CROSSVOLT™	Gmax™	QS™	franchise
CTL™	GTO™	Quiet Series™	TinyBoost™
Current Transfer Logic™	IntelliMAX™	RapidConfigure™	TinyBuck™
DEUXPEED®	ISOPLANAR™	 ™	TinyCalc™
Dual Cool™	MegaBuck™	Saving our world, 1mW/W/kW at a time™	TinyLogic®
EcoSPARK®	MICROCOUPLER™	SignalWise™	TINYOPTO™
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