## Unidirectional And Bidirectional Transient Voltage Suppressor

# multicomp PRO



#### Features:

- Low leakage
- Uni and Bi-Directional unit
- Excellent clamping capability
- Plastic material has UL recognition 94V-0
- Fast response time

#### **Mechanical Data:**

Case Polarity	: Molded Plastic : Uni-Directional -type number and cathode band Bi-Directional-type number only
Weight	: 0.34 grams
Reverse Voltage	: 6.8 to 400 Volts
Power Dissipation	: 400 Watts

### Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Characteristics		Value	Unit
Peak Power Dissipation at T <sub>A</sub> = 25°C TP = 1ms (Note 1)	Ррк	Min. 400	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ігѕм	40	Amps
Steady State Power Dissipation at T∟ = 75°C Lead Lengths 0.375"(9.5mm), See Fig. 4	PM(AV)	1	Watts
Max. Instantaneous Forward Voltage at 25A for Uni-Directional Devices only (Note 2)	VF	See Note 3	Volts
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range		-55 to +175	°C

Notes:

- 1. Non-repetitive current pulse, per Fig. 5 and derated above T<sub>A</sub> = 25°C per Fig. 1.
- 2. 8.3ms single half-wave duty cycle = 4 pulses per minutes maximum (uni-directional units only).
- 3. VF = 3.5V on P6KE6.8 thru P6KE200A devices.

Part N	umber	Reverse Standoff Voltage	Breakdown Voltage BV Lolts@lt		Max. Reverse Leakage	Max. Clamping Voltage	Max. Peak Pulse	Max. Voltage Temp. Variation	
(UNI)	(BI)	VR(V)	Min.(V)	Max.(V)	lt(mA)	IR(µA)	Vc(V)	Ipp(A)	mV/°C
P4KE18A	-	15.3	17.1	18.9	1	5	25.2	17	0.088
-	P4KE30CA	25.6	28.5	31.5	1	5	41.4	10	0.097
P4KE33A	-	28.2	31.4	34.7	1	5	45.7	9	0.098

Notes: Suffix 'C' denotes bidirectional device . Suffix 'A' denotes 5% tolerance device .no suffix denotes 10% tolerance device 1. For bidirectional devices having VR of 10Volts and under ,the IR limit is doubled

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#### **Ratings and Characteristic Curves**

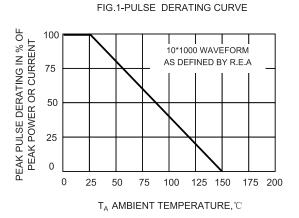
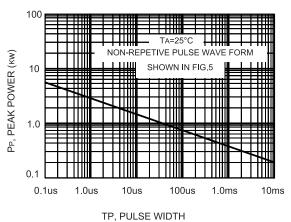


FIG.3-PULSE RATING CURVE



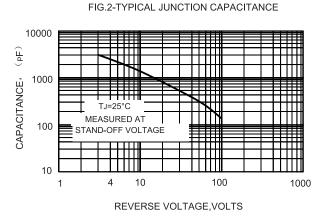
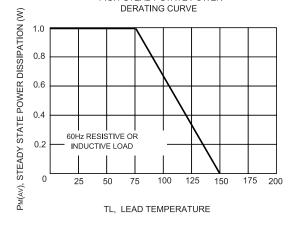
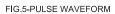
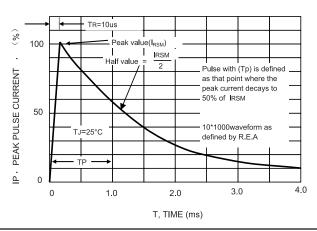


FIG.4-STEADY STATE POWER







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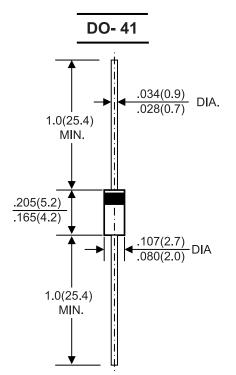


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**Dimensions:** 



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number		
	P4KE18A		
Unidirectional And Bidirectional Transient Voltage Suppressors	P4KE30CA		
	P4KE33A		

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