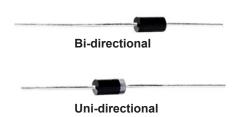
# Transient Voltage Suppression Diodes P4KEG Series, 400W





#### **Features**

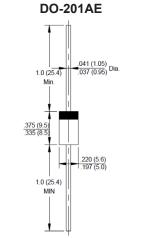
- Glass Passivated (GPP)
- Low leakage
- · Uni and bi-directional versions available
- · Excellent clamping capability
- Fast response time
- Lead free
- Case style: DO-204AL (DO-41) molded plastic

### **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%.

## RoHS Compliant



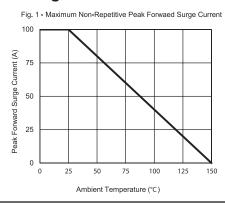
Dimensions: Inches (Millimetres)

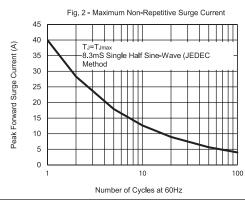
Characteristics	Symbol	Values	Unit
Peak Power Dissipation at T <sub>A</sub> = 25°C T <sub>P</sub> = 1ms (Note 1)	РРК	400 (Min)	W
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	İFSM	40	А
Steady State Power Dissipation at T <sub>L</sub> = 75°C Lead Lengths 0.375" (9.5mm), See Fig. 6	P <sub>M(AV)</sub>	1	W
Maximum Instantaneous Forward Voltage at 50A for Unidirectional Devices Only (Note 2)	VF	See Note 3	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс		

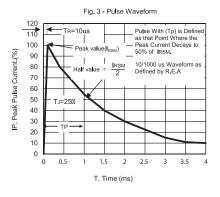
Notes: 1. Non-repetitive current pulse, per Fig. 3 and derated above TA = 25°C per Fig. 1.

- 2. 8.3ms single half-wave duty cycle=4 pulses per minutes maximum (uni-directional units only).
- 3. V<sub>F</sub> = 3.5V on P4KEG18 thru P4KEG33 devices.

## **Rating and Characteristic Curves**





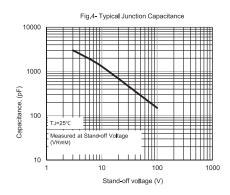


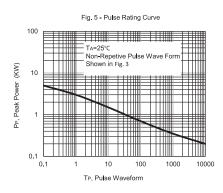
Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands

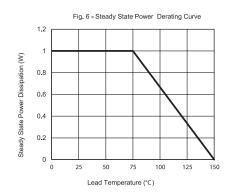
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# Transient Voltage Suppression Diodes P4KEG Series, 400W









Part Number		Reverse				Max.	Max.	Max. Peak	Max.
Uni-directional	Bi-directional	Stand off Voltage	I Breakdown Voltage at II I			Reverse Leakage at V <sub>R</sub>	Clamping Voltage at IPPM	Pulse Surge Current	Voltage Temp.
(UNI)	(BI)	V <sub>R</sub> (V)	Min. (V)	Max. (V)	It (mA)	IR(μA)	Vc(V)	lpp(A)	mV/°C
P4KEG18A	-	15.3	17.1	18.9	1	5	25.2	17	0.088
-	P4KEG30CA	25.6	28.5	31.5	1	5	41.4	10	0.097
P4KEG33A	-	28.2	31.4	34.7	1	5	45.7	9	0.098

Note: Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device.

### **Part Number Table**

Description	Part Number	
TVS Diodes, 400W, 18VBR Nom, Unidirectional, DO-204AL (DO-41)	P4KEG18A	
TVS Diodes, 400W, 30VBR Nom, Bidirectional, DO-204AL (DO-41)	P4KEG30CA	
TVS Diodes, 400W, 33VBR Nom, Unidirectional, DO-204AL (DO-41)	P4KEG33A	

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