

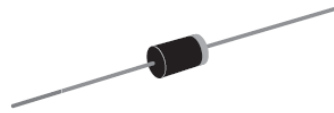


TRANSIENT VOLTAGE SUPPRESSOR P4KE6.8~P4KE440CA

Transient Voltage Suppressor

Features

- Low forward voltage drop
- Low leakage current
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds
/.0375" (9.5mm) lead length
- RoHS and REACH Compliant



DO204AL
(DO-41)



RoHS
COMPLIANT

Mechanical Data

Case:	DO-41, transfer molded plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity:	Cathode indicated by color band
Mounting position:	Any
Weight:	0.012 Ounce, 0.33 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IF(AV)	Max Average Forward Rectified Current	1.0							A	.0375" (9.5mm) lead length at TA=75°C
IFSM	Peak Forward Surge Current	30							A	8.3ms single half sine-wave (JEDEC)
IR(AV)	Max Full Load Reverse Current	30							µA	Full cycle average .0375" (9.5mm) lead length
TJ, TSTG	Operating and Storage Temperature Range	-50 to +150							°C	

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit	Conditions
V _F	Max Instantaneous Forward Voltage	1.1							V	I _{F(AV)} =1.0A
I _R	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							µA	TA=25°C
		50								TA=100°C
C _J	Typical Junction Capacitance	15							pF	At 1MHz, reversed voltage of 4V
R _{θ-JA}	Typical Thermal Resistance	50							°C/W	Note 2

Note:

1. Single phase, half wave, 60Hz, resistive or inductive load. Derate current by 20% for capacitive load
2. Thermal resistance from junction to ambient at .375" (9.5mm) lead length, PCB mounted with copper pad area of 0.2" x 0.2" (5x5mm).



Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

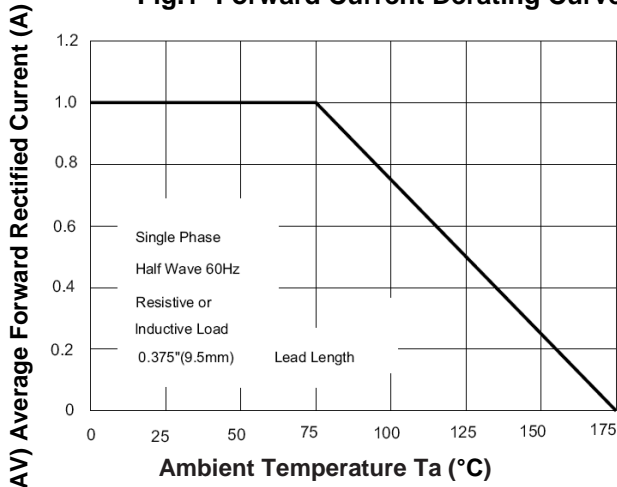


Fig.2- Max. Non-Repetitive Forward Surge Current

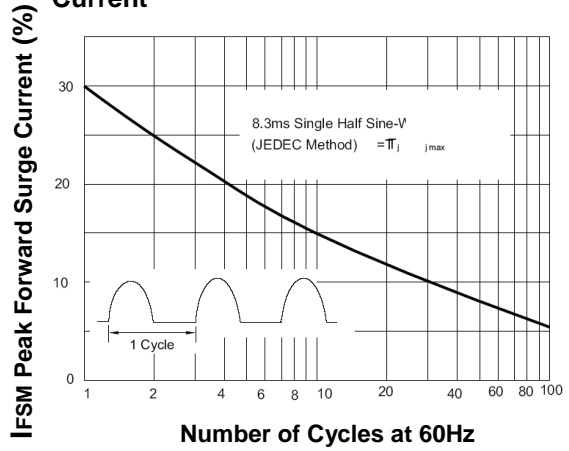


Fig.3- Typical Instantaneous Forward Characteristics

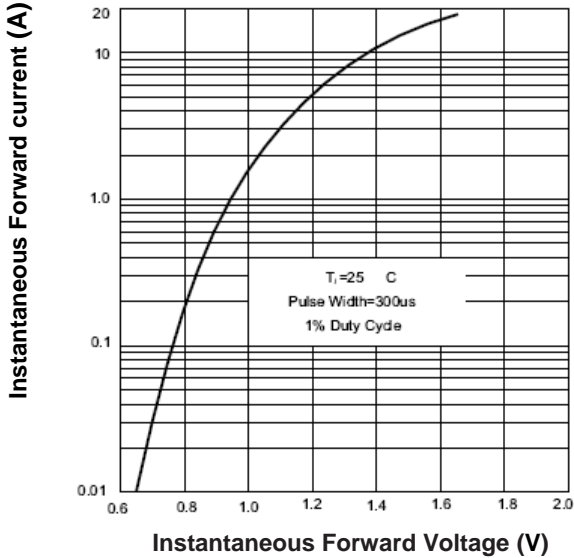


Fig.5- Typical Reverse Characteristics

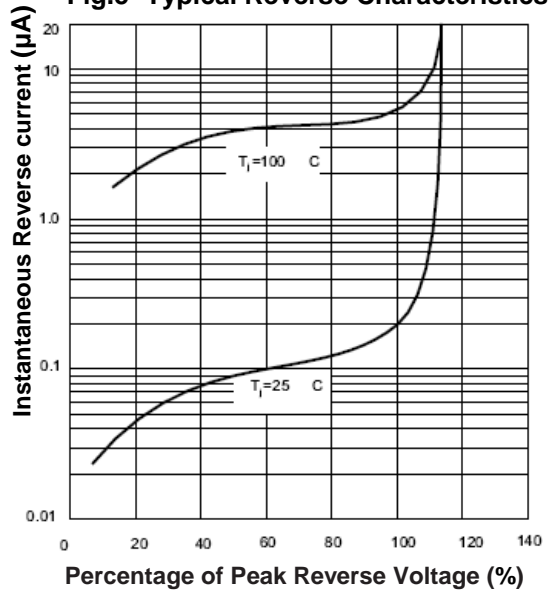
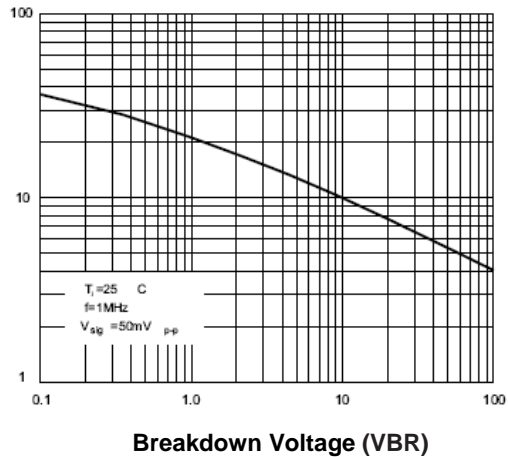


Fig.6- Typical Junction Capacitance



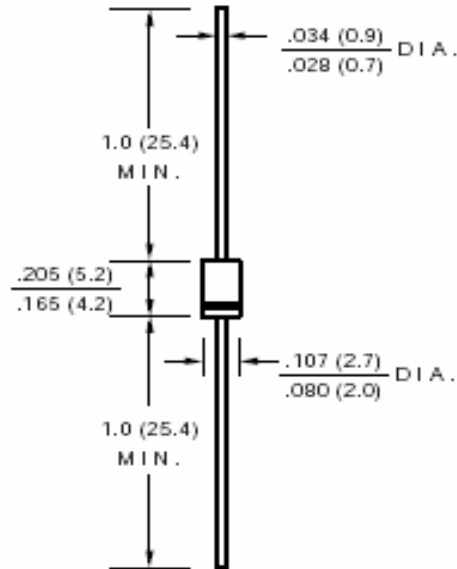


MEI SEMI

TRANSIENT VOLTAGE SUPPRESSOR

P4KE6.8~P4KE440CA

Dimensions in inch (mm)



**DO204AL
(DO-41)**

Contact us:

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