

Dimensions in inches and (millimeters)

Features:

- Glass passivate chip.
- Low leakage.
- Uni and bidirectional unit.
- Excellent clamping capability.
- Plastic material has UL recognition 94V-0.
- Fast response time.

Mechanical Data:

Case : Molded plastic.

Marking : Unidirectional -type number and cathode band

Weight : 1.2 grams.

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%

http://www.farnell.com http://www.newark.com http://www.cpc.co.uk

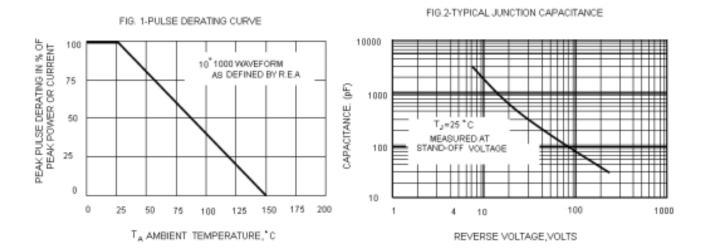




Characteristics	Symbol	Value	Unit
Peak Power Dissipation at T _A =25°C TP=1ms (NOTE1)	P _{PK}	Minimum 1500	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	200	Amps
Steady State Power Dissipation at T _L =75°C Lead Lengths 0.375 inches (9.5mm),See Fig. 4	PM _(AV)	5.0	Watts
Maximum Instantaneous Forward Voltage at 50A for Unidirectional Devices Only (NOTE2)	V _F	See NOTE 3	Volts
Operating Temperature Range	Т	-55 to + 150	°C
Storage Temperature Range	T _{STG}	-55 to + 175	°C

Notes:

- 1. Non-repetitive current pulse, per Fig. 5 and derated above T_A=25°C per Fig. 1 .
- 2. 8.3ms single half-wave duty cycle=4 pulses per minutes maximum (uni-directional units only).
- 3. V_F =3.5V on 1.5KE6.8 thru 1.5KE200A devices and V_F =5.0V on 1.5KE1100 thru 1.5KE400A devices.



http://www.farnell.com http://www.newark.com http://www.cpc.co.uk





200

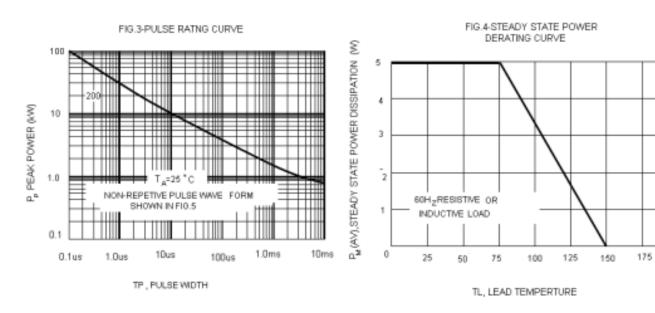
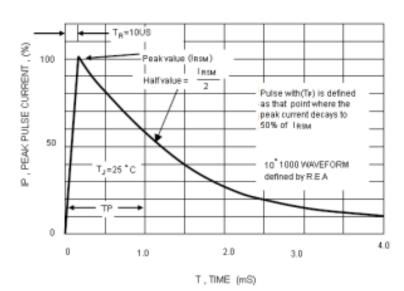


FIG.5-PULSE WAEFORM



Reverse Standoff Voltage	Breakdown Voltage BV Lolts @ It		Maximum Reverse Leakage @ VR	Maximum Clamping Voltage @ Ipp	Maximum Peak Pulse Current	Maximum Voltage Temperature Variaton of Bv	
VR (V)	Minimum (V)	Maximum (V)	It (mA)	IR (μA)	Vc (V)	lpp (A)	mV/°C
7.02	7.79	8.61	10	200	12.1	124	0.065

http://www.farnell.com http://www.newark.com http://www.cpc.co.uk





Notes:

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

Part Number Table

Description	Part Number	
Unidirectional and Bidirectional Transient Voltage Suppressors	1.5KE8.2CA	

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.



