

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%

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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	TJ	-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.

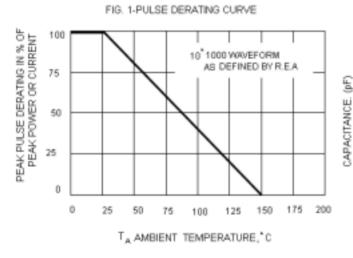
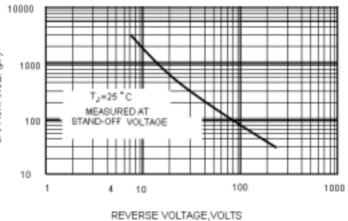
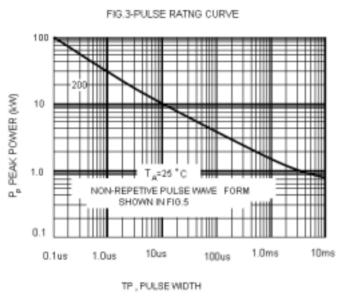
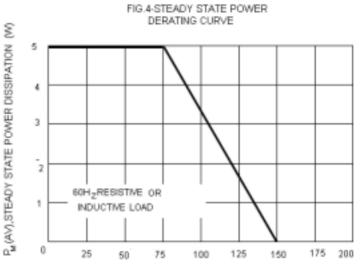


FIG.2-TYPICAL JUNCTION CAPACITANCE



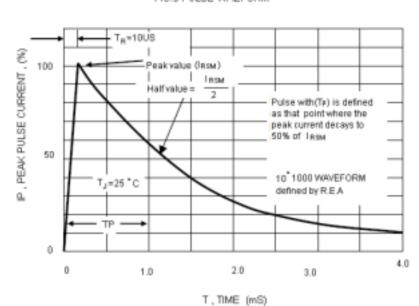






TL, LEAD TEMPERTURE

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

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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	

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