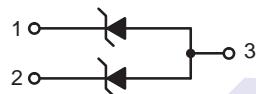
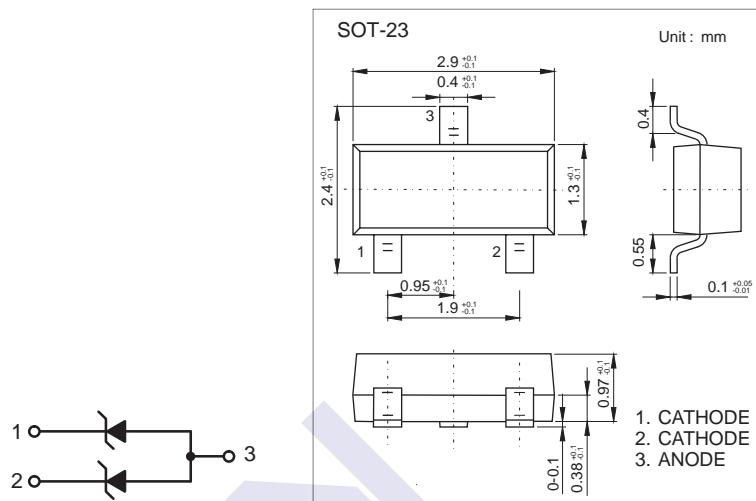


## Dual Transient Voltage Suppressors Array for ESD Protection

### 1KE04C-3 ~ 1KE15C-3

#### ■ Features

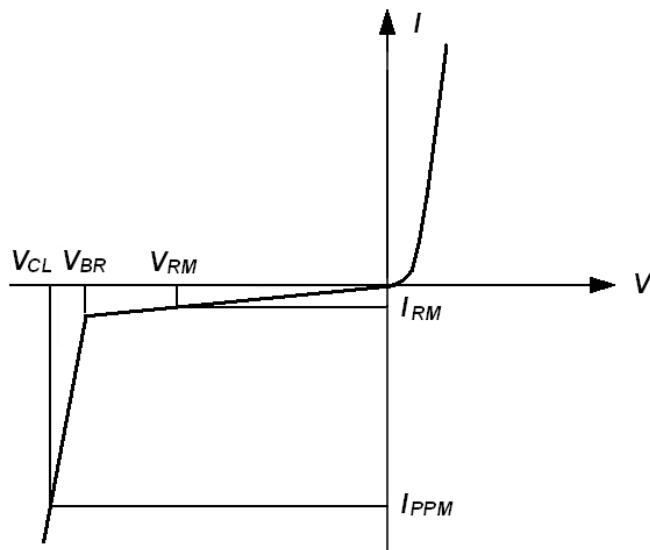
- 2 Unidirectional Transil functions
- Low leakage current:  $I_R$  max < 20  $\mu A$  at V<sub>RM</sub>
- 300W peak pulse power (8/20 $\mu s$ )
- Transient protection for data lines as per IEC61000-4-2(ESD) 15KV(air) 8KV(contact) IEC61000-4-5(Lightning) see IPPM below



#### ■ Absolute Maximum Ratings ( $T_a = 25^\circ C$ unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $t_p=8/20\mu s$ )	P <sub>PP</sub>	300	W
ESD IEC-61000-4-2 (Air)	V <sub>ESD</sub>	±15	KV
ESD IEC-61000-4-2 (Contact)		±8	
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to +150	

## 1KE04C-3 ~ 1KE15C-3



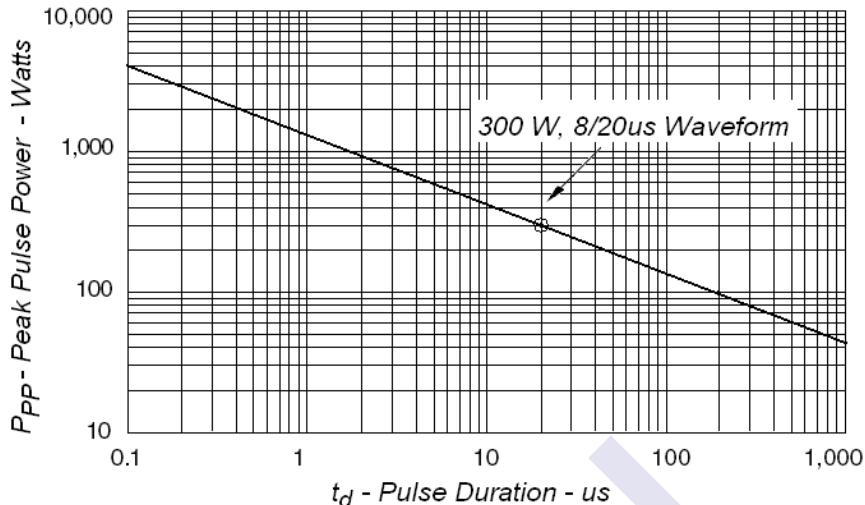
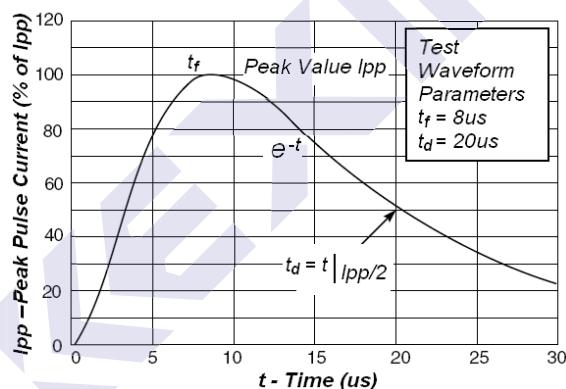
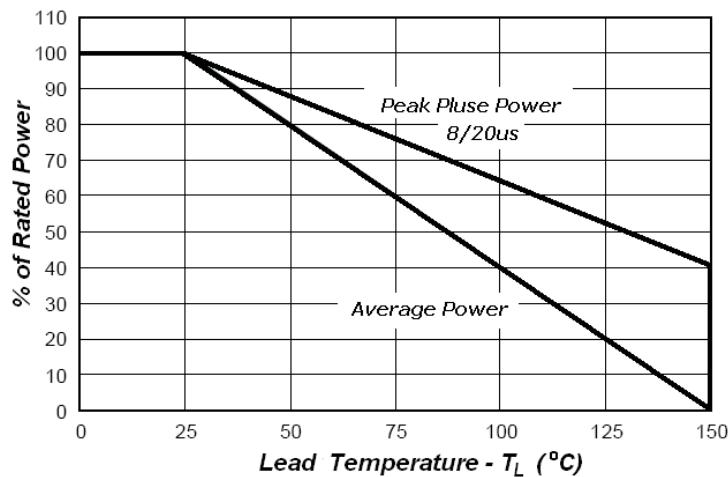
Electrical Parameter

Symbol	Parameter
$V_{RM}$	Stand-off voltage
$V_{BR}$	Breakdown voltage
$V_{CL}$	Clamping voltage
$I_{RM}$	Leakage current
$I_{PPM}$	Peak pulse current

## ■ Electrical Characteristics

Part Numbers	Marking	Rated Stand-off Voltage	Maximum Leakage Current	Minimum Breakdown Voltage	Maximum Clamping Voltage		Maximum Pulse Peak Current	Maximum Capacitance
			@ $V_{RM}$	1mA	1A <sup>1)</sup>	5A <sup>1)</sup>	tp=8/20us	0v, 1MHz
			$V_{RM}$	$I_{RM}$	$V_{BR}$	$V_{CL}$	$I_{PPM}$	C
1KE04C-3	C04	4.0	20.0	5.0	8.5	10.5	17	300
1KE05C-3	C05	5.0	20.0	6.0	9.8	12.5	17	220
1KE08C-3	C08	8.0	5.0	8.5	13.4	15.0	15	190
1KE12C-3	C12	12.0	1.0	13.3	19.0	28.0	12	90
1KE15C-3	C15	15.0	1.0	16.7	24	39.0	10	60

1).8/20 waveform used. (see fig2.)

**1KE04C-3 ~ 1KE15C-3****Fig1. Peak Pulse Power VS Pulse Time VS Pulse Time****Fig2. Pulse Waveform****Fig3. Power Derating**