



# FUKUCOM COMPANY LTD.

福靈有限公司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

## ESD3Z Series

### Transient Voltage Suppressors

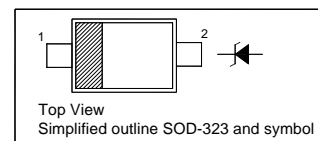
for ESD Protection

#### Features

- Low clamping voltage
- Low leakage

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



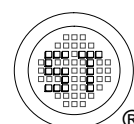
#### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $t_p = 8/20\ \mu\text{s}$ )	$P_{pk}$	350	W
Peak Pulse Current ( $t_p = 8/20\ \mu\text{s}$ )	$I_{pp}$	24	A
ESD Voltage (HRB Waveform per IEC61000-4-2)	$V_{pp}$	30	KV
Operating Junction Temperature	$T_j$	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

#### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Marking Code	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage		Clamping Voltage <sup>1)</sup>				Capacitance	
		$V_{RWM}$	$I_R$ at $V_{RWM}$	$V_{BR}$	at $I_T$	$V_C$	at $I_{pp}$	$V_C$	at $I_{pp}$	$C_j$	at f
		Max. (V)	Max. ( $\mu\text{A}$ )	Min. (V)	mA	Max. (V)	A	Max. (V)	A	Max. (pF)	MHz
ESD3Z5V0	5-	5	10	6	1	9.8	5	14.5	24	350	1
ESD3Z12	12-	12	1	13.3	1	19	5	25	15	150	1

<sup>1)</sup>  $t_p = 8/20\ \mu\text{s}$





# FUKUCOM COMPANY LTD.

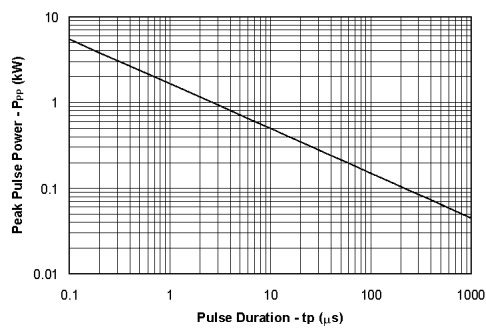
福靈有限公司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

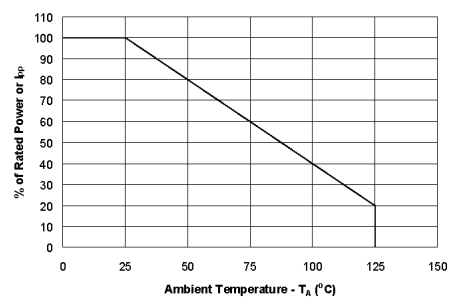
TEL: 852-2790 0314 FAX: 852-2790 0206

## ESD3Z Series

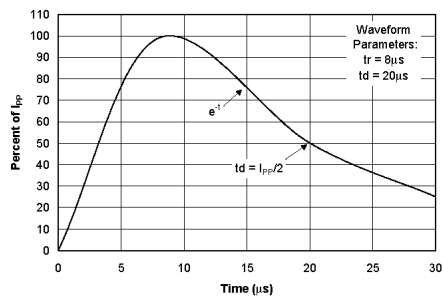
**Non-Repetitive Peak Pulse Power vs. Pulse Time**



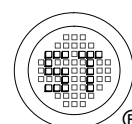
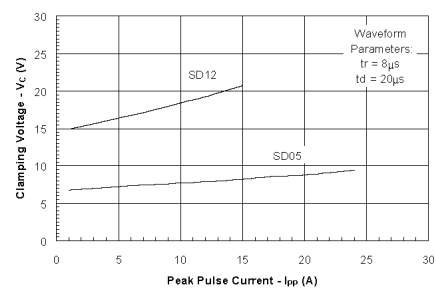
**Power Derating Curve**



**Pulse Waveform**



**Clamping Voltage vs. Peak Pulse Current**





# FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

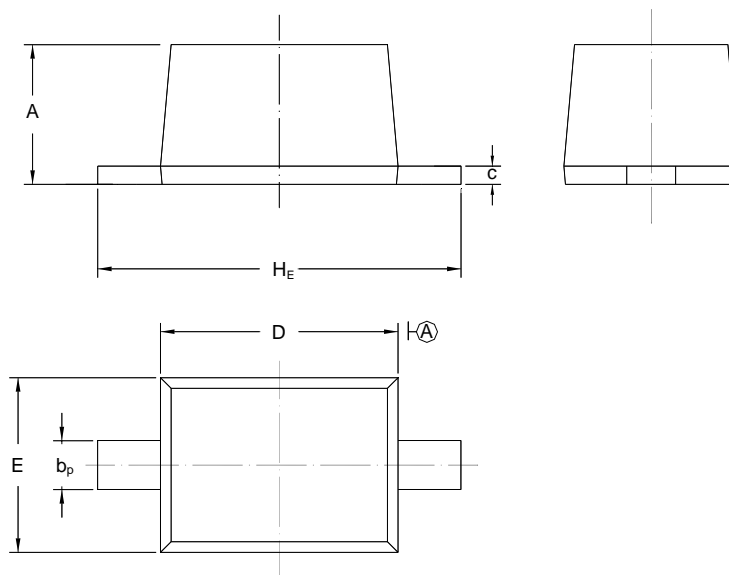
TEL: 852-2790 0314 FAX: 852-2790 0206

## ESD3Z Series

### PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

