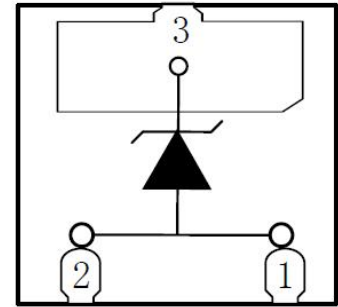


### Features

- ◆ 5800 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- ◆ DFN-2020-3L package
- ◆ Unidirectional configurations
- ◆ Low clamping voltage
- ◆ Low leakage current
- ◆ Medium capacitance ( $C_j = 1700pF$  typ.)
- ◆ Protection one data/power line to:  
IEC 61000-4-2  $\pm 30kV$  contact  $\pm 30kV$  air  
IEC 61000-4-4 (EFT) 40A (5/50ns)  
IEC 61000-4-5 (Lightning) 280A (8/20 $\mu s$ )



### Applications

- ◆ Power lines
- ◆ USB Vbus Industrial Electronics
- ◆ Industrial Electronics
- ◆ Microcontroller Input Protection
- ◆ Computer & Consumer Electronics
- ◆ Automotive and Telecommunication

### Mechanical data

- ◆ Case: DFN-2020-3L (plastic package). Lead free; RoHS compliant; Halogen free
- ◆ Molding Compound Flammability Rating: UL 94 V-0
- ◆ Terminals: High temperature soldering guaranteed: 260 °C/10 sec. at terminals

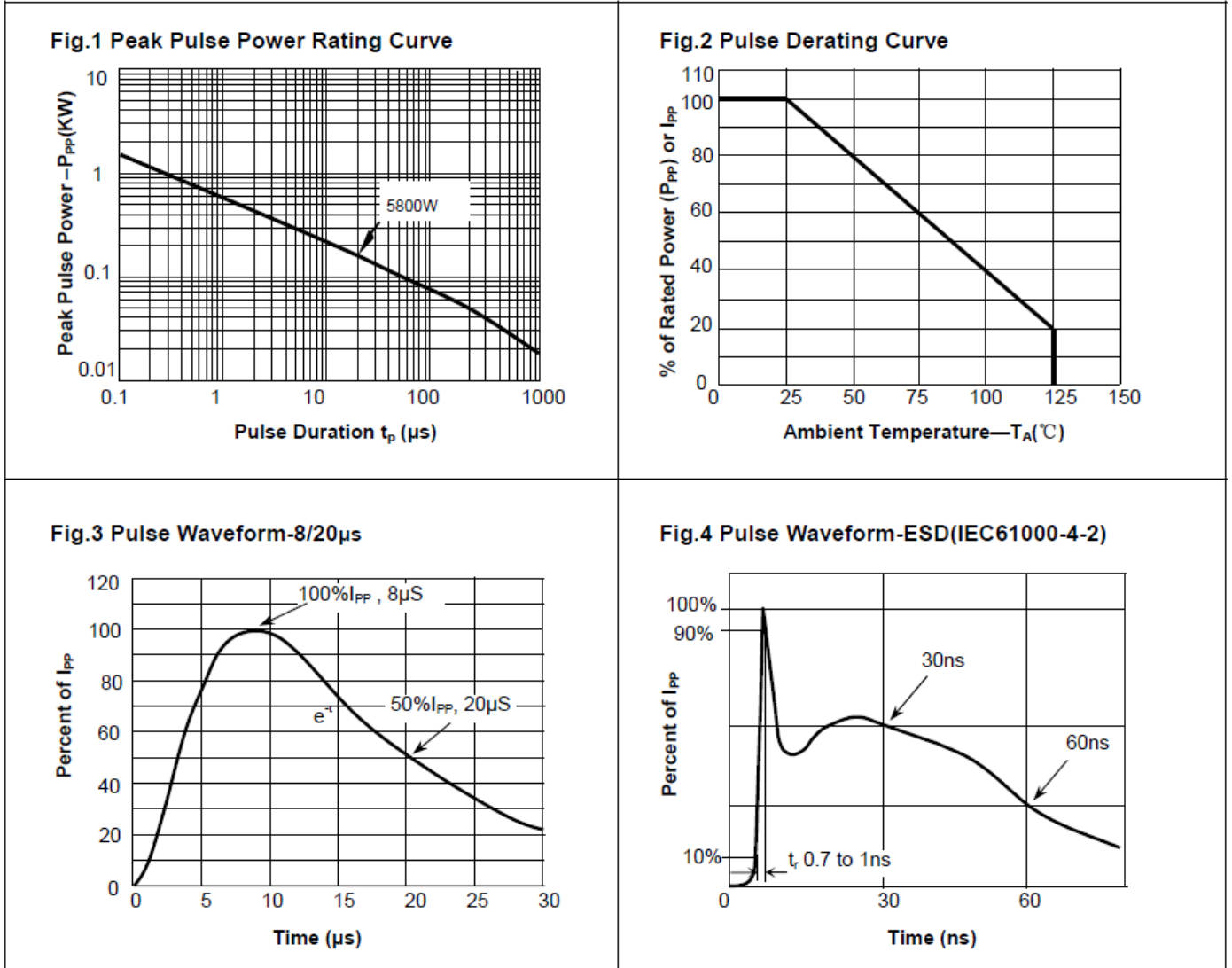
### Absolute Maximum Ratings (Ratings at 25 °C, ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (TP=8/20 $\mu s$ )	$P_{PP}$	5800	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $t_P = 8/20\mu s$ )	$I_{PP}$	280	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

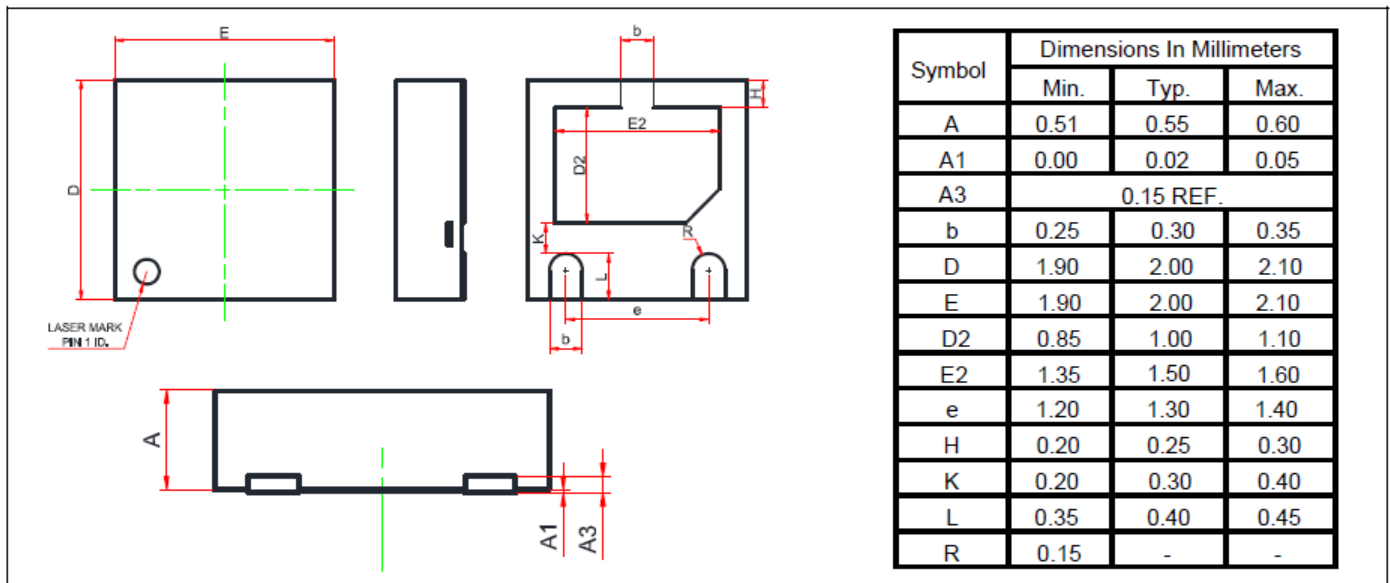
### Electrical Characteristics ( $T_A = 25$ °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	6			V
Reverse Leakage Current	$I_R$	$V_R = 7V$			1	$\mu A$
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP} = 50A$			10	V
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP} = 100A$			13	V
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP} = 280A$			21	V
Junction Capacitance	$C_J$	$V_R = 0V, f = 1MHz$		680		pF

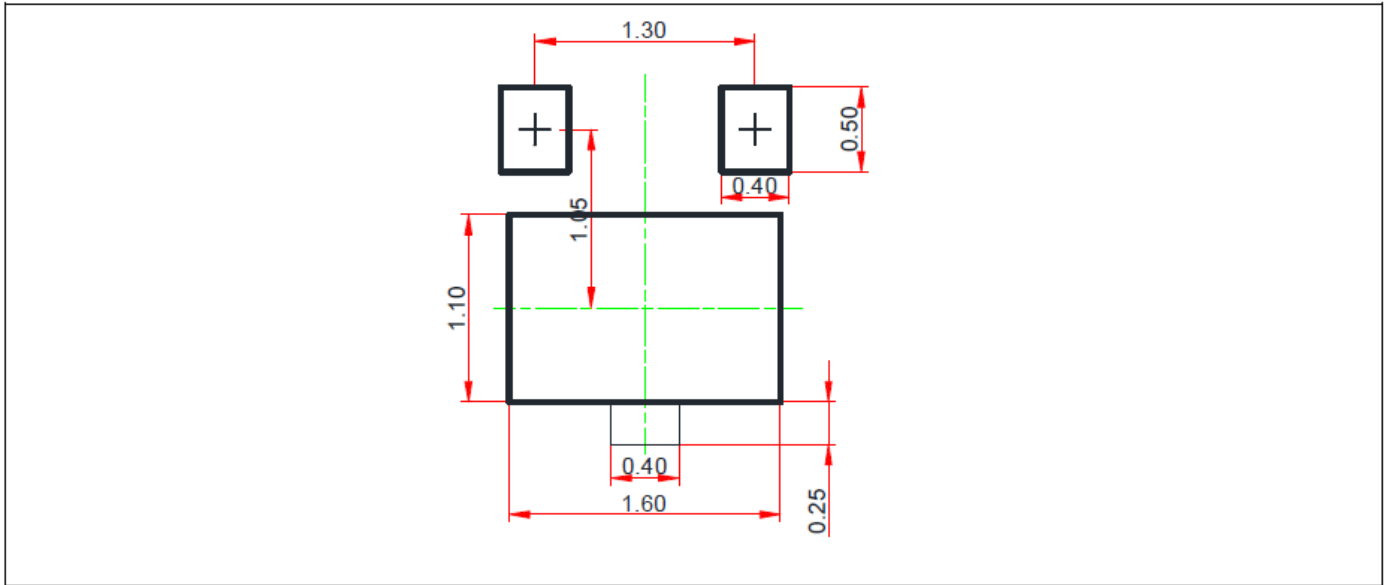
### Typical Characteristics ( $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)



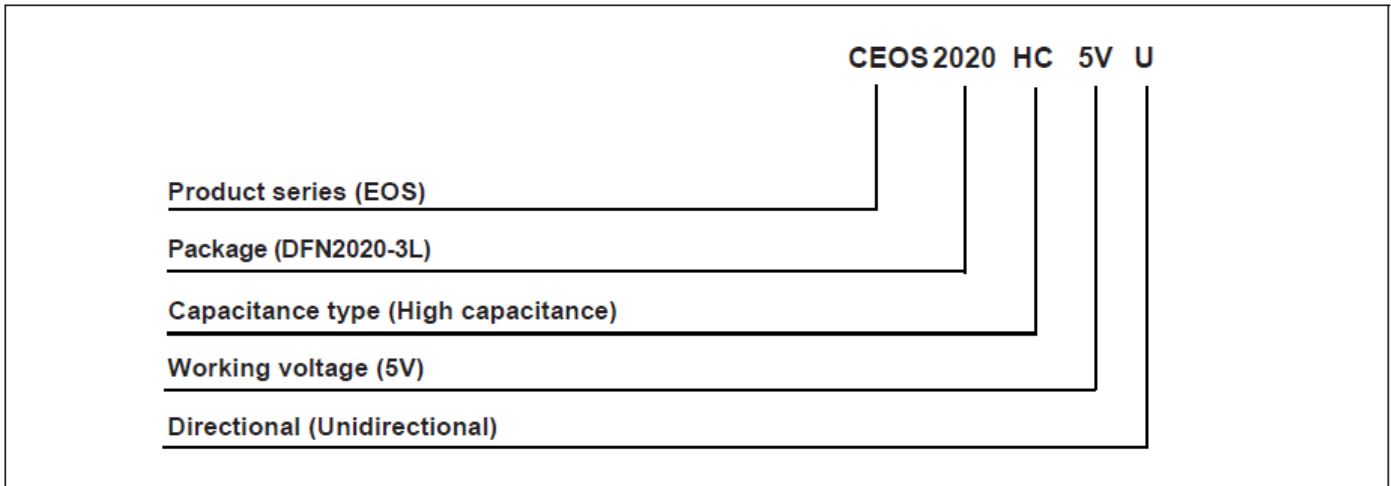
### Package Dimensions



**PAD Dimensions**



**Part number system**



**Ordering Information**

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CEOS2020HC5VU	3N07	DFN2020-3L	Tape and reel	3000pcs / reel	EIA STD RS-481