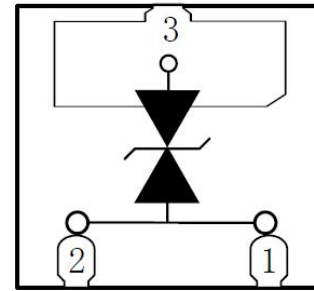


Features

- ◆ 6000 Watts peak pulse power ($t_p = 8/20\mu s$)
- ◆ DFN-2020-3L package
- ◆ Bidirectional configurations
- ◆ Low clamping voltage
- ◆ Low leakage current
- ◆ Medium capacitance ($C_j = 700pF$ 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) 300A (8/20 μs)



Applications

- ◆ Power supply protection
- ◆ Personal digital assistants (PDA's)
- ◆ Microprocessors based equipment
- ◆ Power Management
- ◆ Cell phone Handsets and Accessories
- ◆ Portable Electronics

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

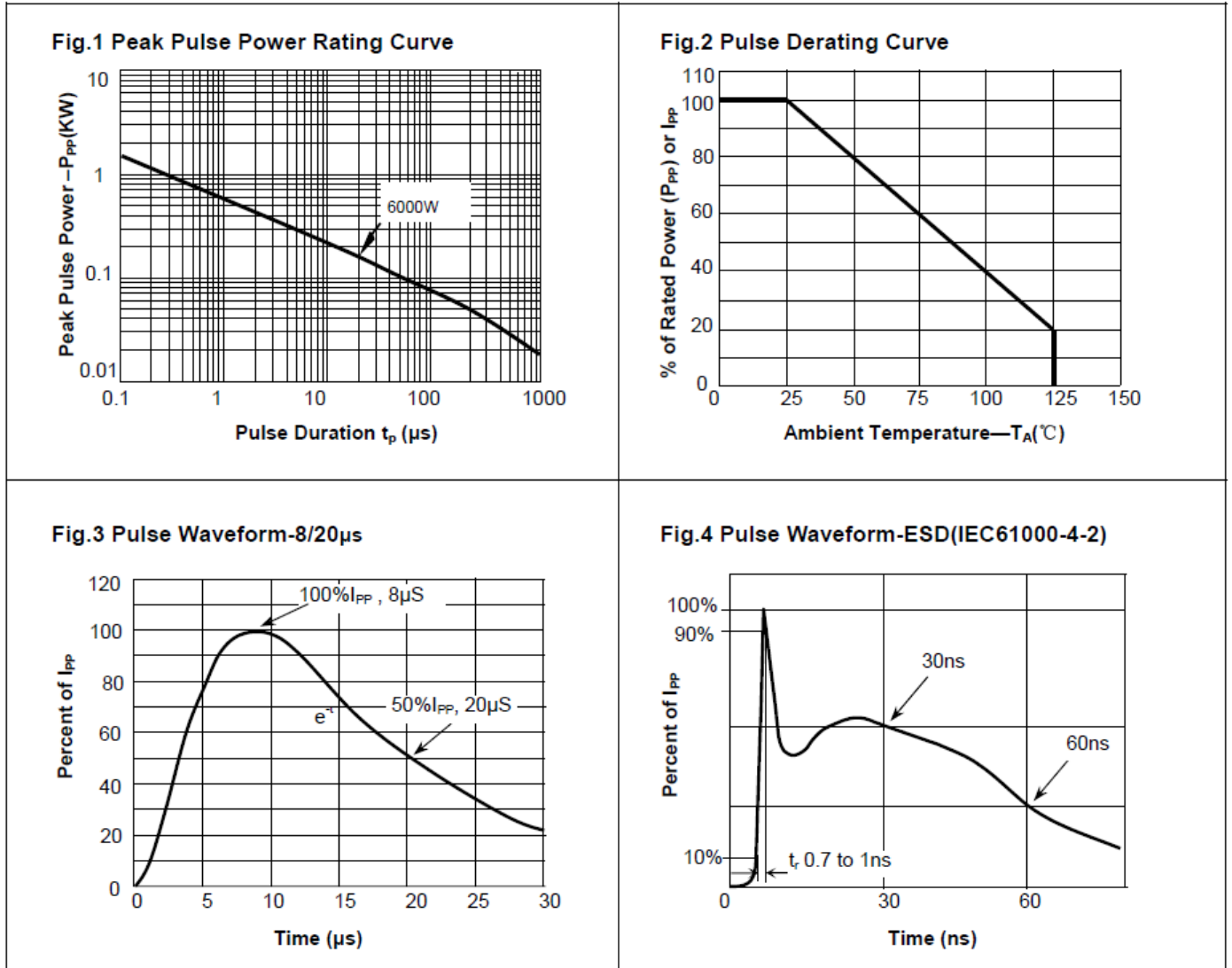
Absolute Maximum Ratings (Ratings at 25 °C, ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (TP=8/20 μs)	P_{PP}	6000	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}	300	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

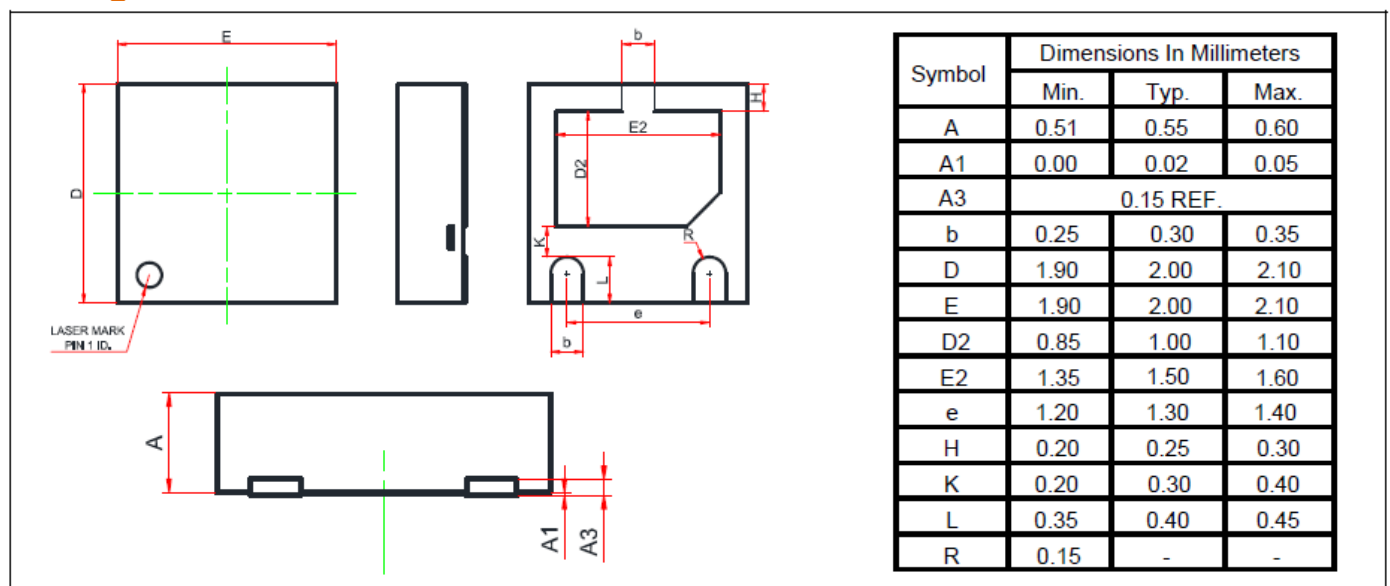
Electrical Characteristics ($T_A = 25$ °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				4.5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$		5.4		V
Reverse Leakage Current	I_R	$V_R = 4.5V$			0.3	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 50A$			8.5	V
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 200A$			18	V
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 300A$			20	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		700	900	pF

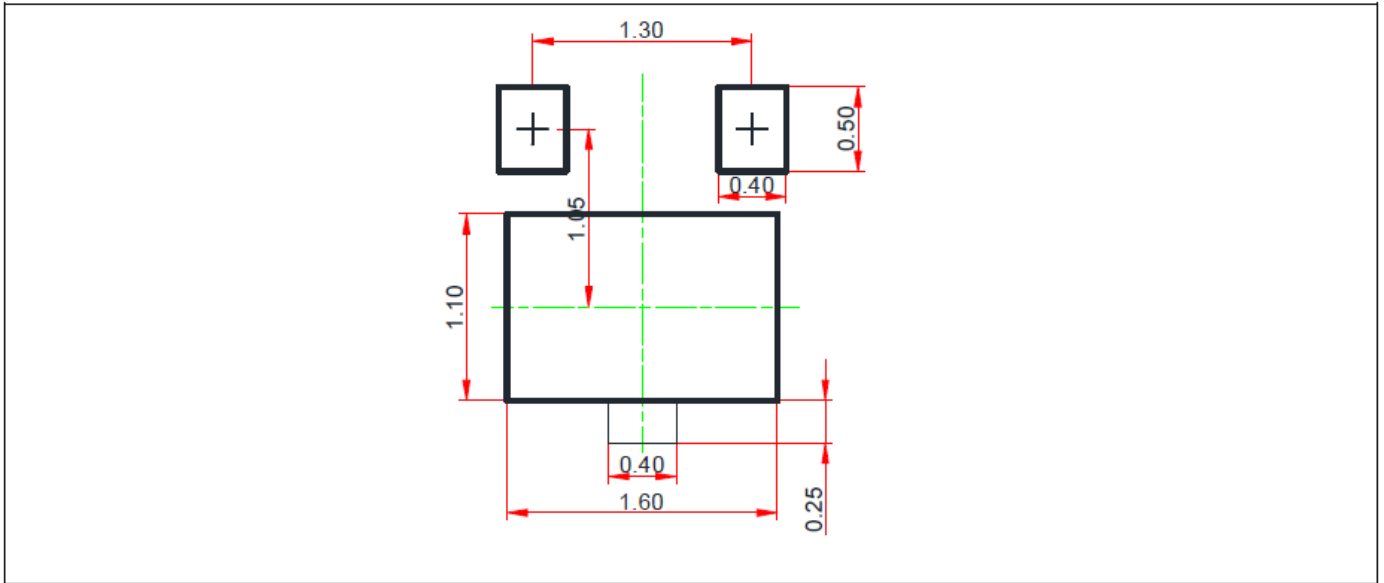
Typical Characteristics ($T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)



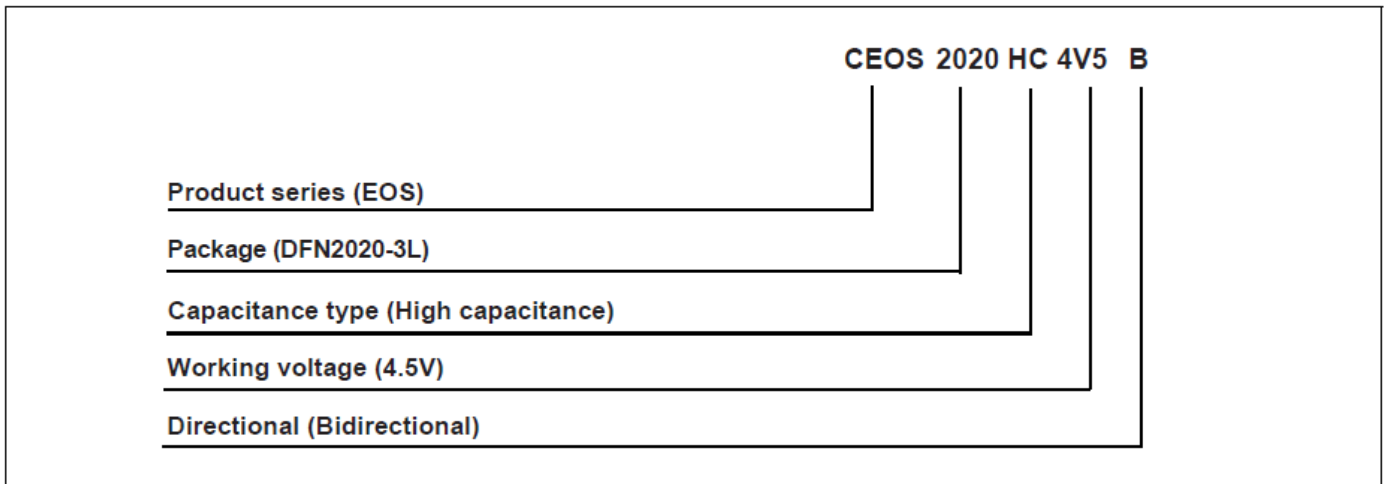
Package Dimensions



PAD Dimensions



Part number system



Ordering Information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CEOS2020HC4V5B	3N45	DFN2020-3L	Tape and reel	3000pcs / reel	EIA STD RS-481