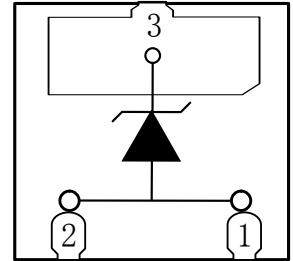


Features

- 6200 Watts peak pulse power ($t_p = 8/20\mu s$)
- DFN2020-3 package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance ($C_j = 1200\text{pF typ.}$)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 30\text{kV}$ contact $\pm 30\text{kV}$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 230A (8/20 μs)



Mechanical Data

- **Case:** DFN2020-3 (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

Applications

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

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

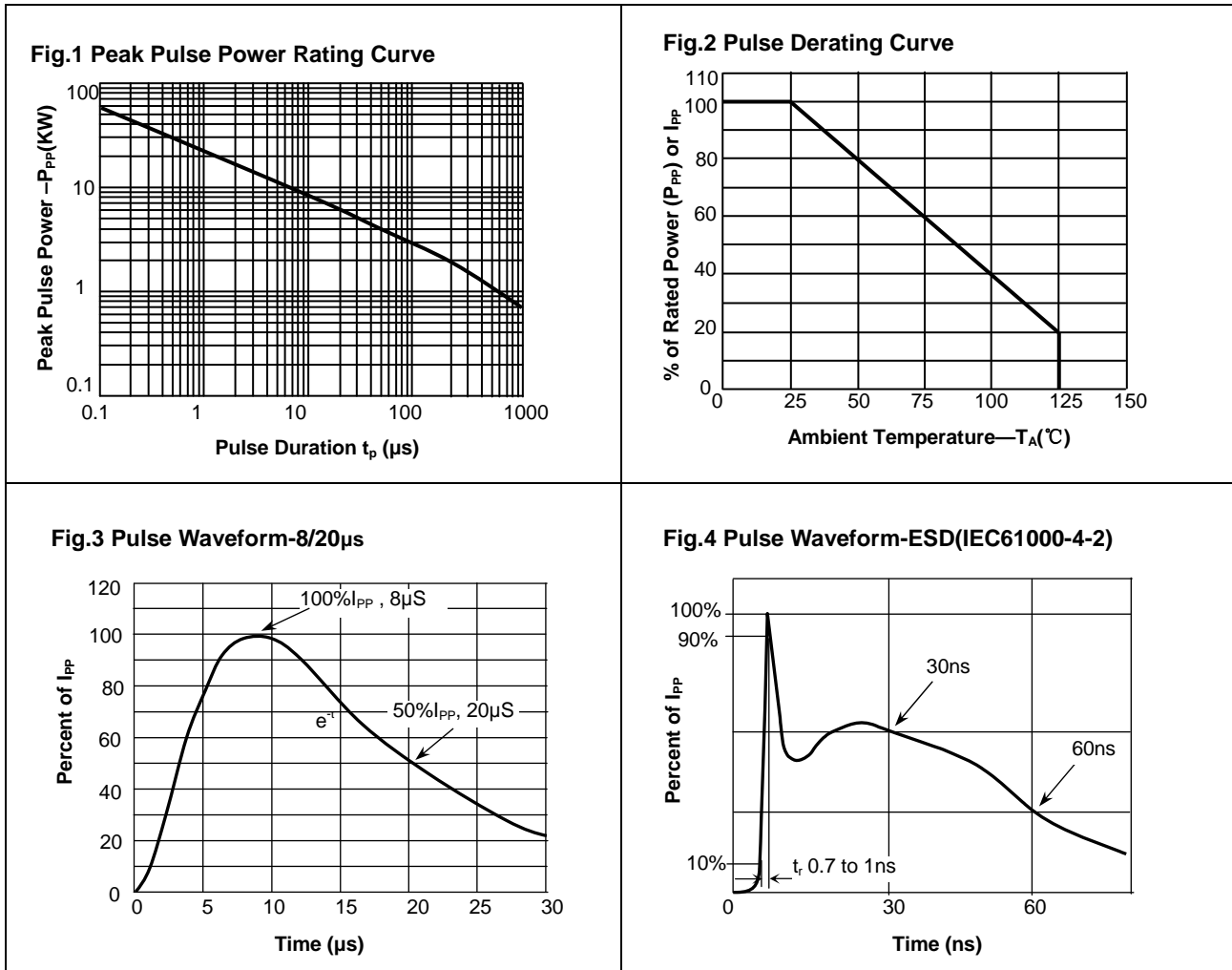
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_p = 8/20\mu s$)	P_{PP}	6200	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	30/30	kV
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	230	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

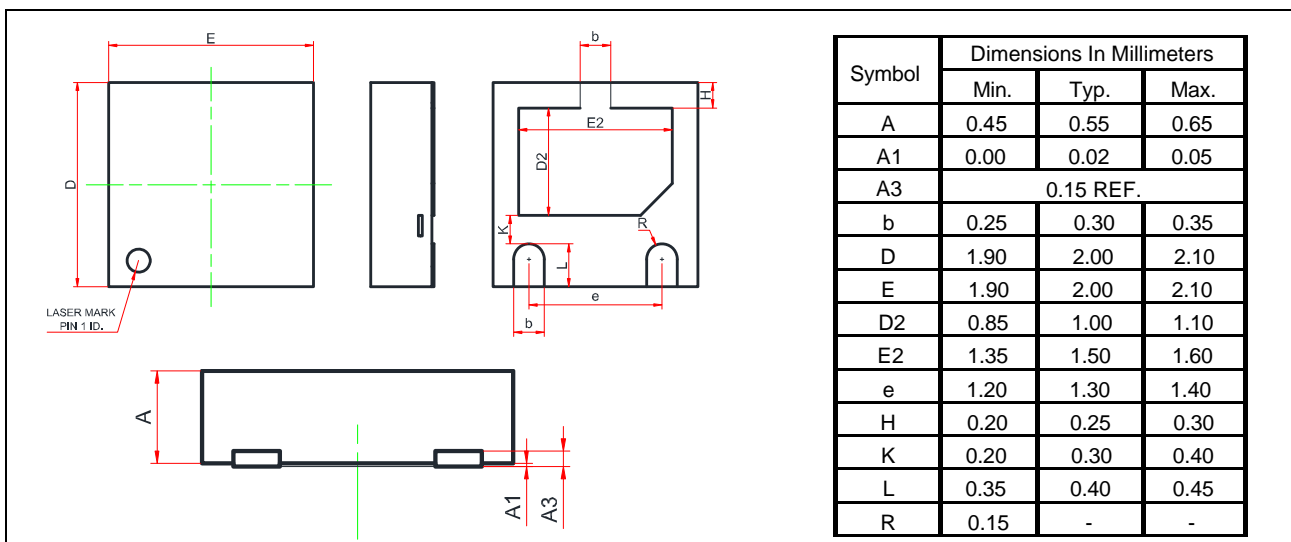
($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				12	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$	13.0	14.5		V
Reverse Leakage Current	I_R	$V_R = 12\text{V}$			1	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 50\text{A}$			17.5	V
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 100\text{A}$			20	V
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 230\text{A}$			27.5	V
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$		1200		pF

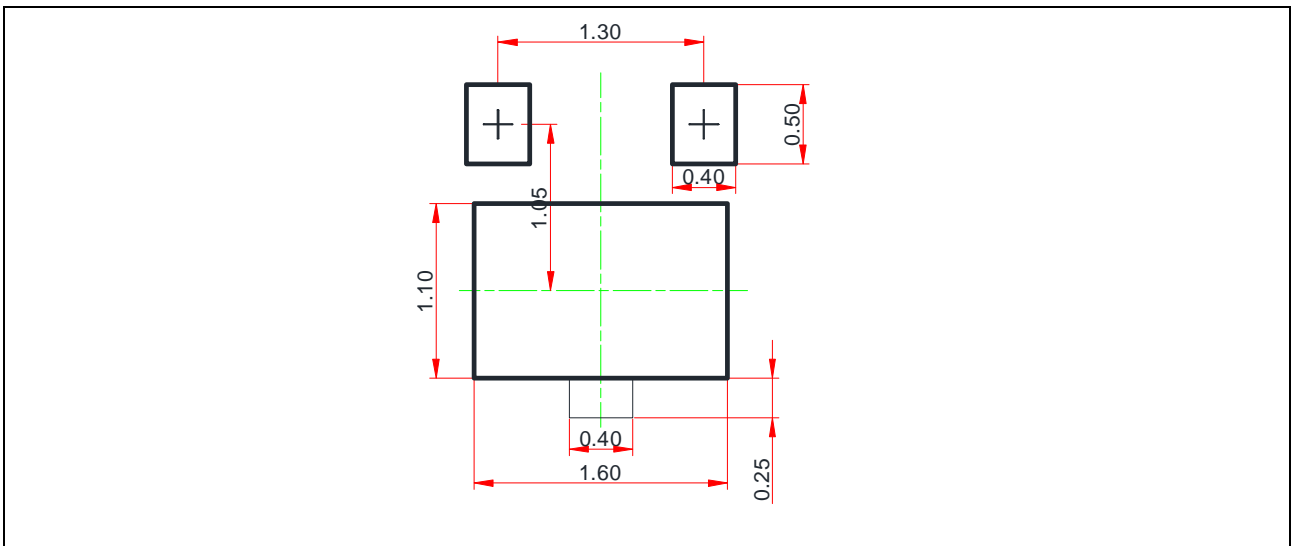
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



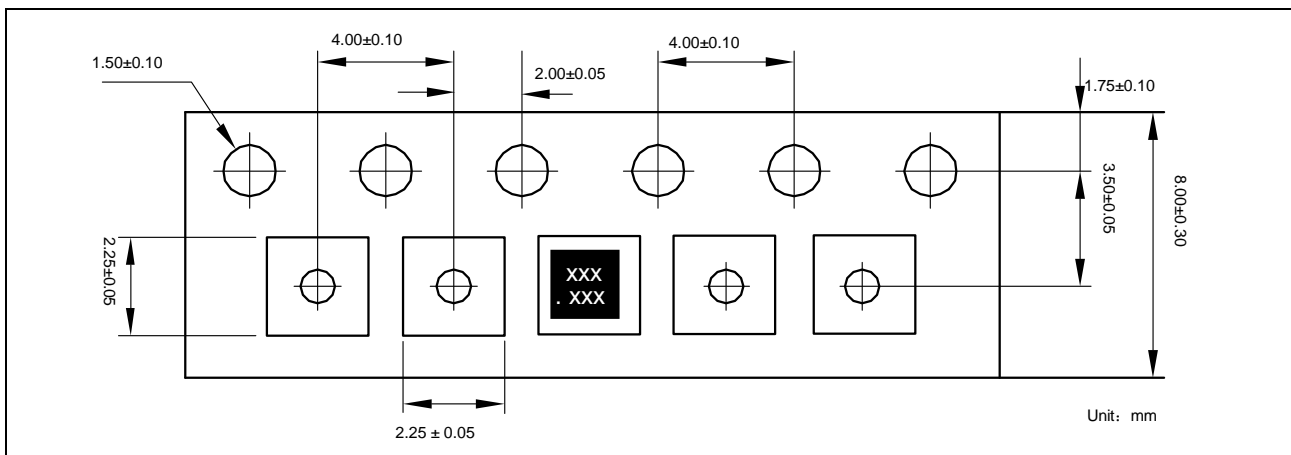
Package Dimensions



PAD Dimensions



Package information



Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
YED20F312230V	T12	DFN2020-3	Tape and reel	3000pcs / reel	EIA STD RS-481