

1. Features

- 400 watts Peak Pulse Power (10/1000 μ s)
- Unidirectional Protection
- Fast Response Time: Typically < 1ns
- Excellent Clamping Capability
- Built-in Strain relief
- Low inductance
- Low profile package
- High temperature solder: 260°C/10 seconds at terminal

2. Application

- I/O Interfaces
- Power lines
- Automotive and Telecommunication
- Computers & Consumer Electronics
- Industrial Electronics

- Marking code: 3.3A

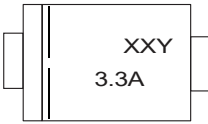
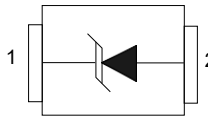
4. Absolute Maximum Ratings($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 10/1000\mu\text{s}$) (see Note1,2)	PPPM	400	W
Peak pulse current (10/1000 μ s) (see Note2)	IPPM	47	A
Power Dissipation on infinite heat sink $T_L = 50^\circ\text{C}$ (Fig4)	PD	1.0	W
Operating junction temperature range	T_J	-55~+150	$^\circ\text{C}$
storage temperature range	T_{STG}	-55~+150	$^\circ\text{C}$

Note:

1. Peak Pulse Power Rating as Pulse Width , per Fig1.
2. Peak Pulse Power or Current Derated above $T_A=25^\circ\text{C}$ Per Fig. 2 and Non-Repetitive Current Pulse, Per Fig.3.

5. Pinning information

Pin	Symbol	Description	Simplified	Equivalent Circuit	Marking	Package
1	C	Cathode			XXY 3.3A Date Code:XXY	SMA
2	A	Anode				

6. Electrical Characteristics(Tamb=25 °C)

Parameter	Symbols	Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	VRWM				3.3	V
Reverse Breakdown Voltage	VBR	IT=10mA	5.2	—	6.0	V
Reverse Leakage Current	IR	VRWM=3.3V, T=25°C	—	—	300	uA
Clamping Voltage	VC	Ipp=47A , tp=10/1000us	—	—	8.5	V

7. Electrical Parameters

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current@V _{RWM}
I _T	Test Current
V _{BR}	Breakdown Voltage @I _T

