SMAJ3.3A

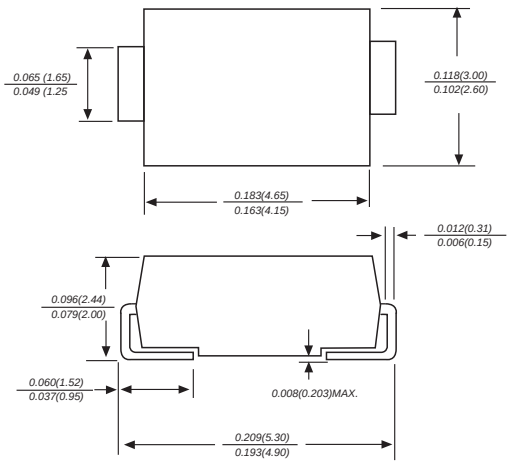
400W Surface Mount Transient Voltage Suppressors- 3.3V

Features

- 400W peak pulse power capability with a 10/1000μs waveform.
- Stand-off voltage: 3.3V.
- Planar technology.
- Excellent clamping capability.
- Fast response time.
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact).
- Compliant to Halogen-free.

Package outline

SMA/DO-214AC



Dimensions in inches and (millimeters)

Mechanical data

- Case : Molded plastic, DO-214AC / SMA
- Terminals : Solder plated, solderable per J-STD-002
- Mounting Position : Any

Maximum ratings (AT T_A=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage and operating junction temperature range	T_{STG} /T_J	-55 to +150	℃
Peak pulse power dissipation at 10/1000μs waveform	P_{PP}	400	W
Steady state power dissipation on infinite heat sink at T_L =75℃	$P_{M(AV)}$	3.0	W

Electrical characteristics (AT T_A=25℃ unless otherwise noted)

Part Number	V_R	I_R@V_R	V_{BR}@I_T	I_T	V_C@I_{PP}	I_{PP}①	C_O②	Marking
	V	μA(max)	V(min)	mA	V(max)	A(max)	pF(typ.)	
SMAJ3.3A	3.3	100	4.1	1	7.3	54.7	4100	U03A

① Surge waveform: 10/1000μs

② C_O is measured at: V_{bias}=0V, V_{RMS}=0.1V, f=1MHz

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Ratings and V-I Characteristics Curves (AT T_A=25℃ unless otherwise noted)

FIG.1:V- I curve characteristics (Uni-directional)

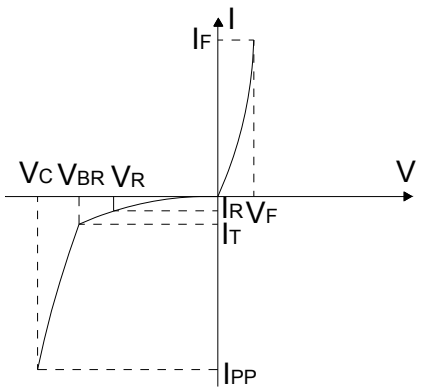


FIG.2: Pulse waveform

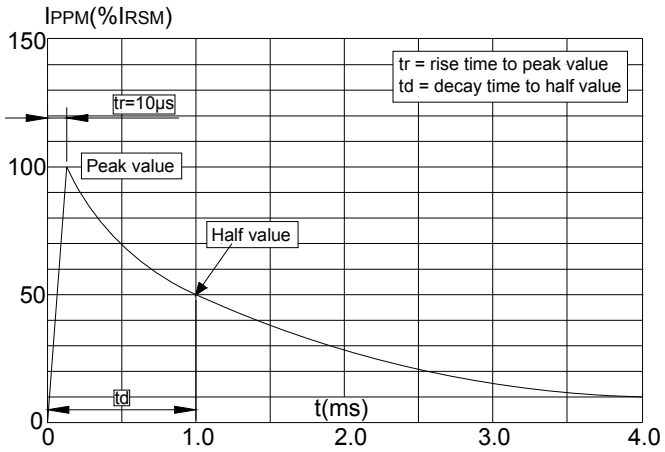
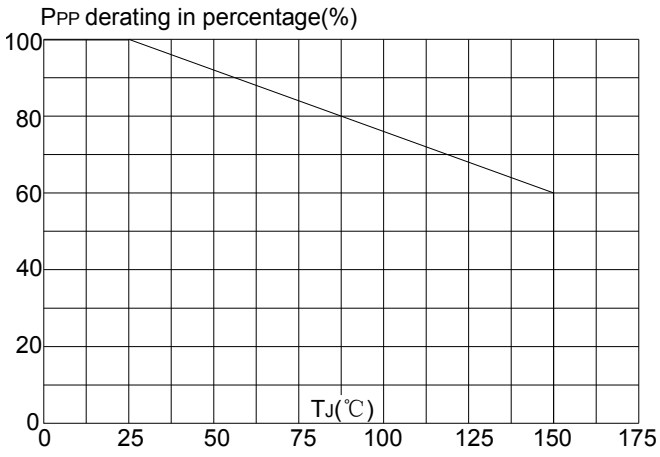


FIG.3: Pulse derating curve



Document ID	Issued Date	Revised Date	Revision	Page.
AS-3080072	2023/12/26	2025/10/27	B	3

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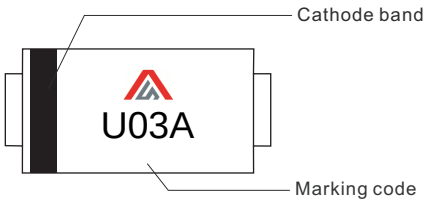
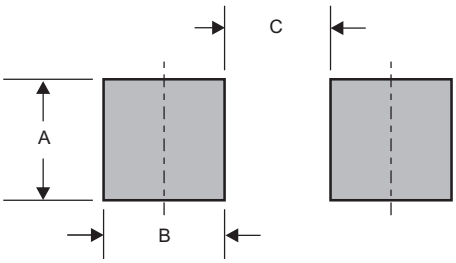
Pinning information

Pin	Simplified outline	Symbol
Uni-Directional Pin1 cathode Pin2 anode		

Marking

Type number	Example
SMAJ3.3A	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SMA	0.071 (1.80)	0.079 (2.00)	0.091 (2.30)