

SMAJ3.3A

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR DIODE

VOLTAGE RANGE: 3.3 V
POWER: 400Watts

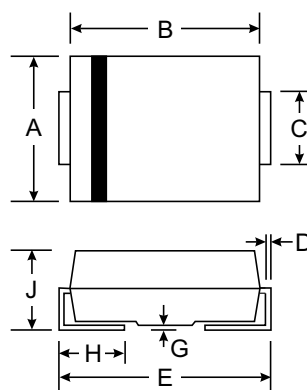


FEATURES

- Planar technology.
- Halogen-free and ROHS compliant.
- Stand-off voltage 3.3V.
- 400W peak pulse power capability at 10×1000 μs waveform.
- Excellent clamping capability.
- Fast response time.

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	Value	Unit
Storage and operating junction temperature range	T _{STG} /T _J	-55 to +150	°C
Steady state power dissipation on infinite heat sink at T _L =75°C	P _{M(AV)}	3.0	W
Peak pulse power dissipation on 10/1000μs waveform	P _{PP}	400	W

Part Number	V _R	I _{R@V_R}	V _{BR@I_T}	I _T	V _{C@I_{PP}}	I _{PP} ^①	C _O ^②	Marking
	V	μA	V (min)	mA	V (max)	A (max)	pF(typ.)	
SMAJ3.3A	3.3	100	4.1	1	7.3	50	4100	KC

- Surge waveform: 10/1000μs
- C_O is measured at: V_{bias}=0V, V_{RMS}=1V, f=1MHz

RATINGS AND V-I CHARACTERISTICS CURVES ($T_A=25^\circ\text{C}$, unless otherwise noted)

FIG.1: Pulse waveform

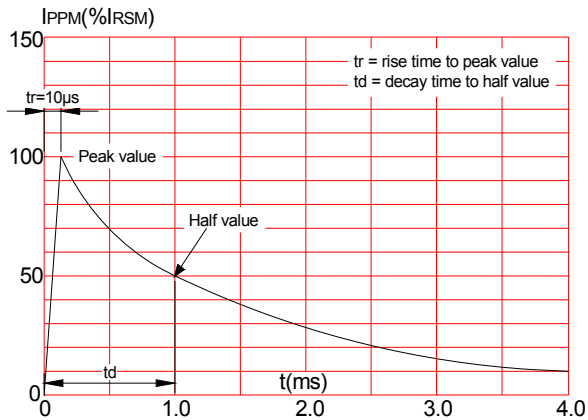
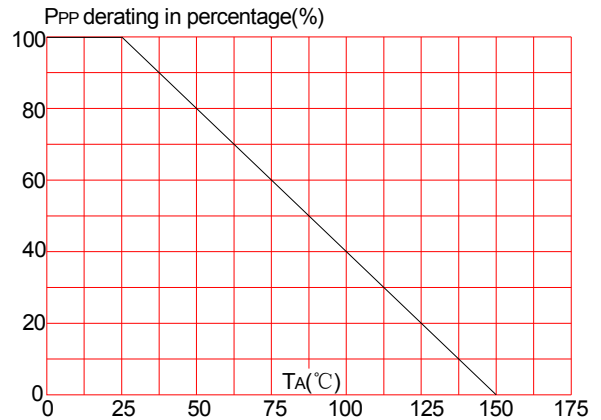
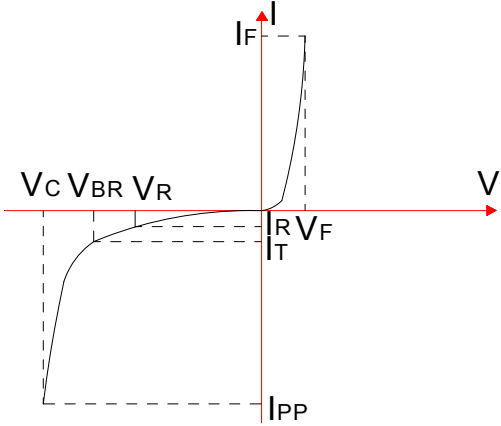


FIG.2: Pulse derating curve



Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	I-V curve 
V_R	Stand-off voltage	
V_{BR}	Breakdown voltage	
V_C	Clamping voltage	
I_R	Off-state reverse leakage current	
I_T	A specified reverse current	
I_{PP}	A specified peak-pulse current	
V_F	Forward voltage drop	