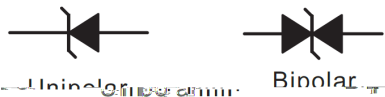
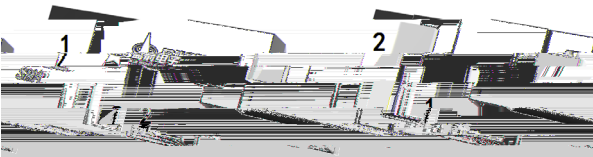


5.0V~440V SMA

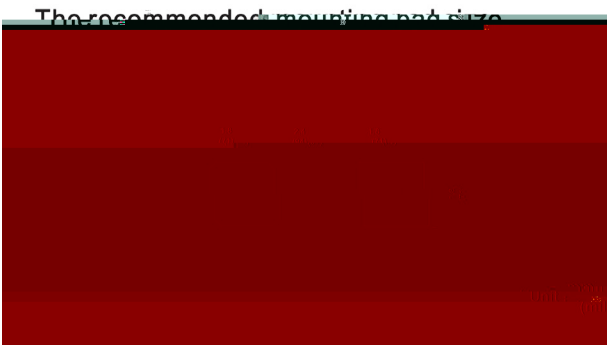
Surface mount transient voltage suppressor power 400 watts,Stand-Off Voltage 5.0V~440V ,SMA package.

Glass passivated junction, Low inductance, For surface mounted applications,HF product.

General purpose.



PIN	DESCRIPTION
1	Cathode
2	Anode



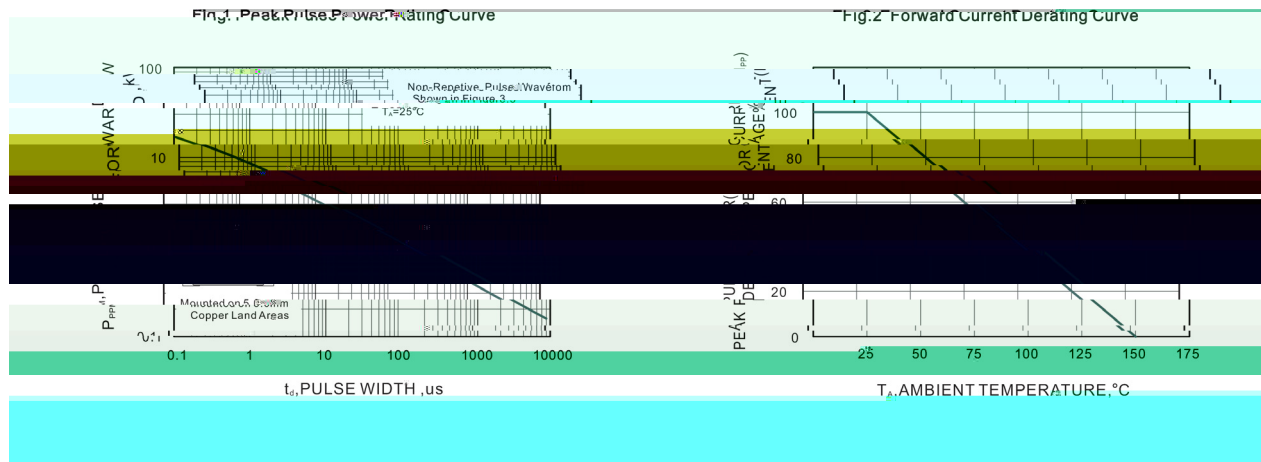
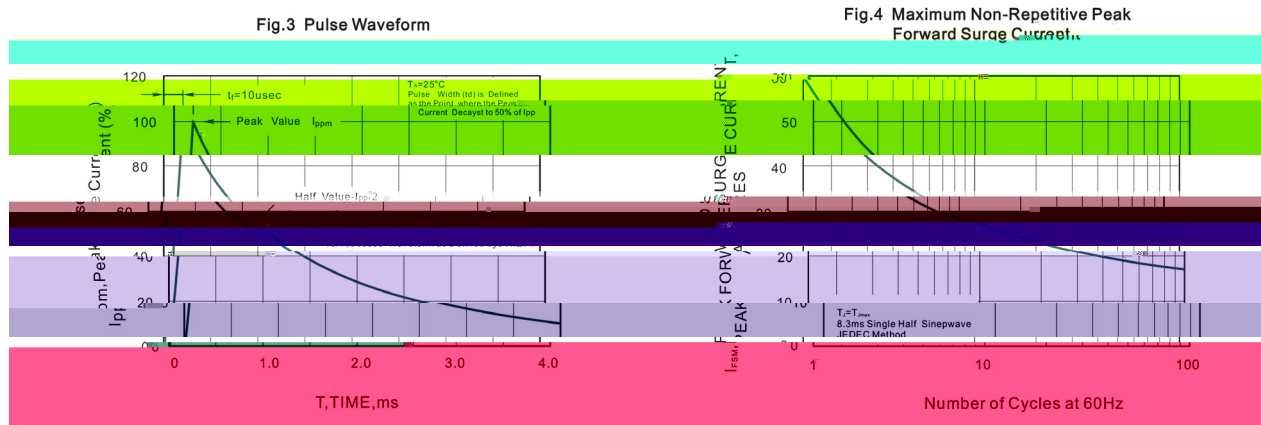
See Marking Instructions.

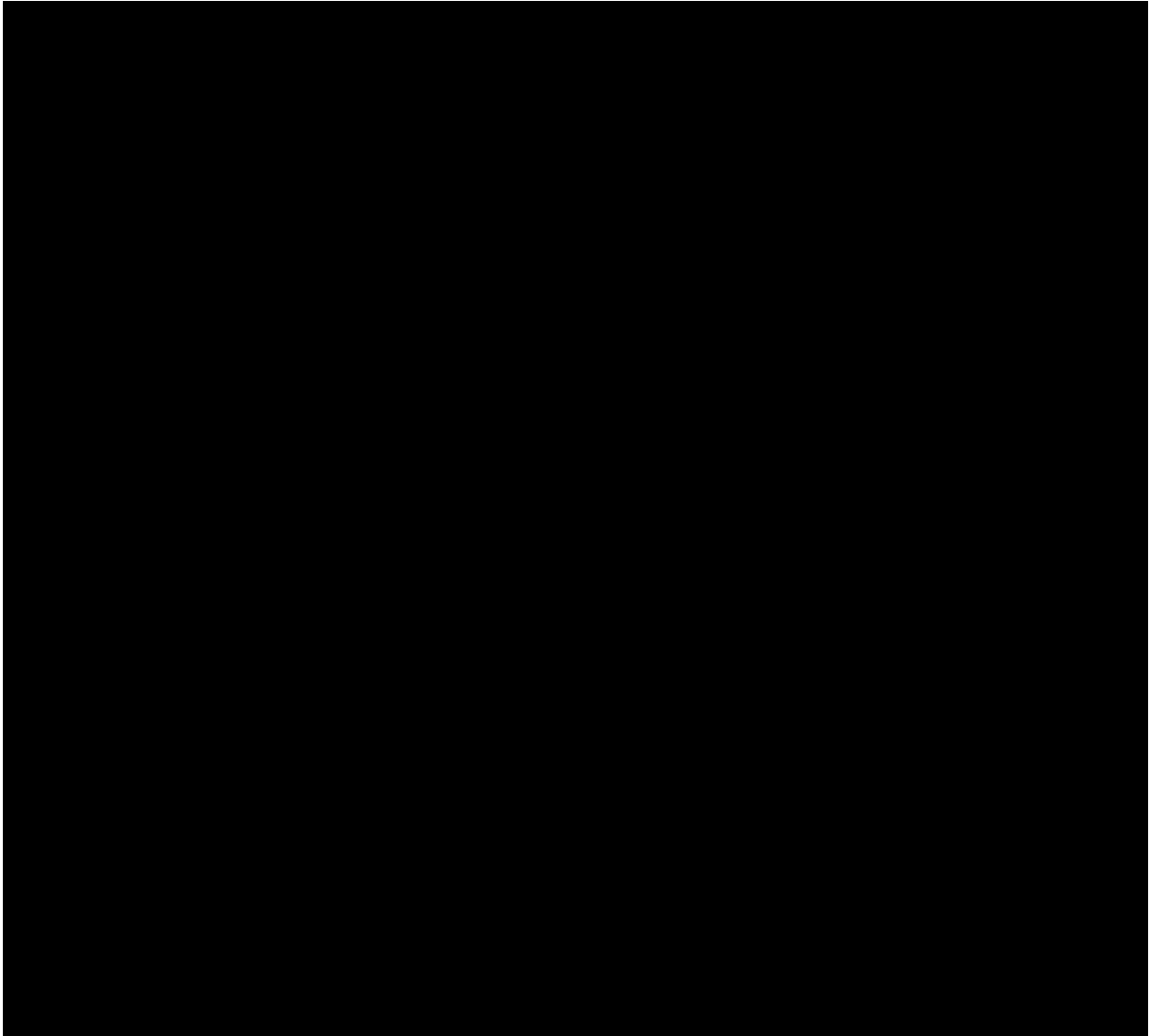
Parameter		Symbol	Rating	Unit
Peak Pulse Power Dissipation on $T_A=25^{\circ}\text{C}$ (Note 1,2,4, Fig1)		P_{PPM}	400	W
Peak Forward Surge Current (Note 3, Fig 4)		I_{FSM} (UNI)	60	A
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3)		I_{PPM}	see Table 1	A
ESD Voltage per IEC6100-4-2	Contact	V_{ESD1}	$\square 30$	KV
	Air	V_{ESD2}	$\square 30$	KV
Typical Thermal Resistance Junction to Ambient(Note 2)		$R_{\theta JA}$	100	$^{\circ}\text{C/W}$
Operating Junction Temperature and Storage Temperature Range		T_j, T_{stg}	-65 ~ +150	$^{\circ}\text{C}$

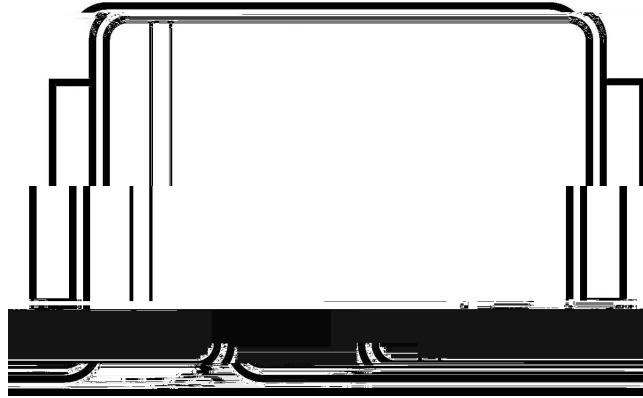
Note:

1. Non-repetitive current pulse, per Fig.3 and derated above $T_A = 25^{\circ}\text{C}$ per Fig. 2.
2. Mounted on 5mm^2 copper pads to each terminal.
3. Peak Forward Surge Current : 8.3ms single half sine-wave Superimposed on rated load (JEDEC method).
4. Peak pulse power waveform is 10/1000 μs .

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
			V _{BR} @ I _T						SMA	
		V _R RM	Min	Max	I _T	I _R @ V _R RM	V _C @ I _{PP}	I _{PP}	Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
SMAJ45A	SMAJ45CA	45	50	55.3	1	1	72.7	5.5	CV	YV
SMAJ48A	SMAJ48CA	48	53.3	58.9	1	1	77.4	5.2	CX	YX
SMAJ51A	SMAJ51CA	51	56.7	62.7	1	1	82.4	4.9	CZ	YZ
SMAJ54A	SMAJ54CA	54	60	66.3	1	1	87.1	4.6	RE2.462.7.5(87.1)897.92	







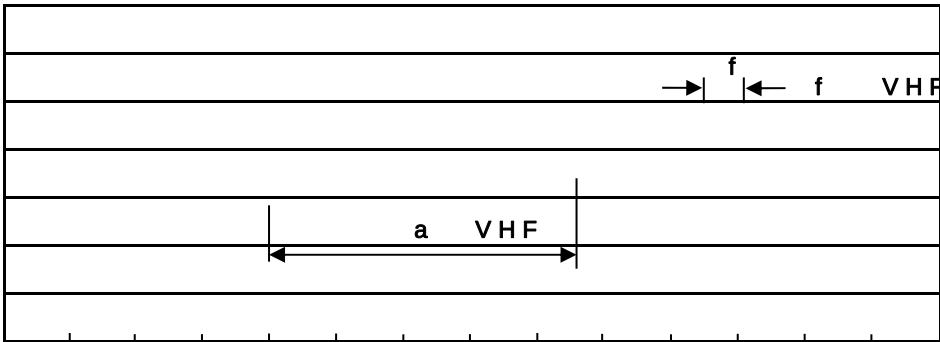


Note:

WE Product Type Code

***** Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



7 L P H V H F

Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMA	5,000	2	10,000	7	70,000	13 ρ ×12	336×336×40	380×335×366