

FEATURES

| Plastic package has underwriters laboratory

| Flammability classification 94V-0

| Glass passivated junction

| 5000W peak pulse power capability on 10/1000µs waveform

| Excellent clamping capability

| Low incremental surge resistance

| Fast response time:typically less than 1.0ps from 0 Volts to $V_{\rm BR}$

| Typical IR less than 2μA above 10V

| Molded plastic over glass passivated junction

| Polarity: Color band denoted cathode except bidirec

| Mounting Positing:Any

Meet AEC-Q101 Requirements



R-6/P-600



APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Parameter	Symbol	Value	Unit
Operating junction and storage temperature range	$T_{J,}T_{STG}$	-55 to +175	°C
Peak pulse power dissipation at 10/1000μs waveform	P_{PP}	5000	\A/
Steady state power dissipation at T _L =75°C	P _{M(AV)}	8.0	W
Typical thermal resistance junction to lead	$R_{_{\theta JL}}$	8.0	°C/W
Typical thermal resistance, junction to ambient	$R_{\theta JA}$	40	C/ VV



ELECTRICAL CHARACTERISTICS(T_A=25°C)

Dart Number	Marking	$V_{_{\rm R}}$	V _{BR} (@I _T	Ι _τ	V _с @І _{РР}	l _{pp} ^①	I _R @V _R
Part Number		V	Min.(V)	Max.(V)	mA	V	Α	Max.(μA)
TP5KP48CA	5KP48CA	48.0	53.3	58.9	5	77.4	65.9	2

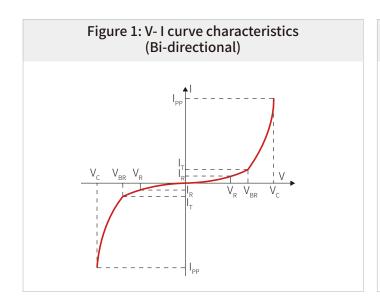
①.Surge waveform:10/1000µs

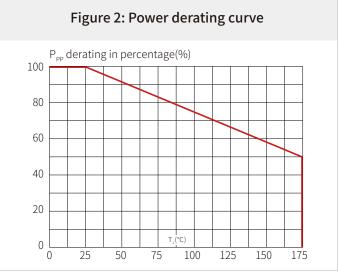
 V_R : Stand-off voltage -- Maximum voltage that can be applied

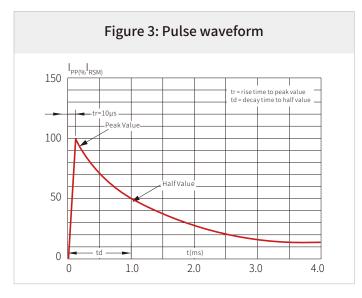
 $V_c^{\rm sr}$: Clamping voltage -- Peak voltage measured across the suppressor at a specified $I_{\rm pp}$

I_R: Reverse leakage current

RATINGS AND CHARACTERISTICS CURVES(T_A=25°C)

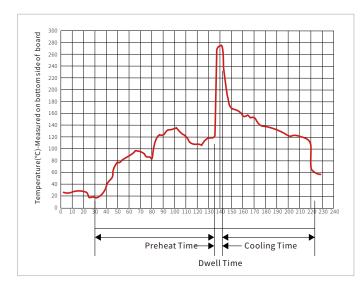






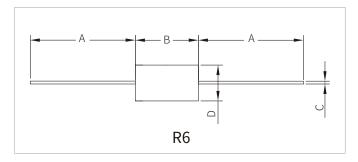


WAVE SOLDERING



	Wave Parameter	Lead-free assembly
	Temperature Min	100°C
Pre Heat	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solderpo	t Temperature	280°C Max
Solder Dv	vell Time	2-5 seconds

PACKAGE INFORMATION



Ref.	Millin	neters	Inches		
	Min.	Max.	Min.	Max.	
А	25.40	-	1.000	-	
В	8.60	9.40	0.339	0.370	
С	1.20	1.40	0.047	0.055	
D	8.60	9.10	0.339	0.358	

ORDERING INFORMATION

Part Number	Component Package	PER BOX (pcs)	Per Carton (Pcs)	Description
TP5KP48CA	R6/P600	300	3000	Вох



Headquarters

No.3387 Shendu Road Pujiang I&E Park Minhang Shanghai China 201000

Hotline

400-021-5756

Web

Https://www.semiware.com

Sales Center

Tel: 86-21-3463-7458 Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001

Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654

Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172

Ext: 8868

Email: cs03@semiware.com

By QR Code





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Machat

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