# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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# Obsolete



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

#### TSMBJ0305C-072

#### **Features**

- Oxide-Glass passivated Junction
- Bi-Directional protection in a single device
- Surge capabilities up to 50A@10/1000us or 150A@8/20us
- High Off-State impedance and Low On-State voltage
- Plastic material has UL flammability classification 94V-0

#### **Mechanical Data**

- Case : Molded plastic
- Polarity : None cathode band denotes
- Approx Weight : 0.093grams

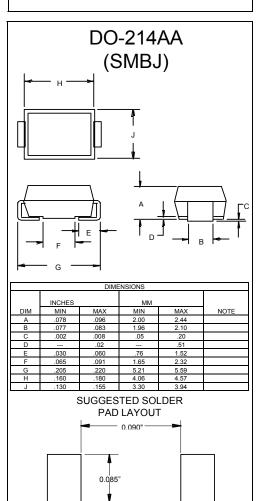
#### **Maximum Ratings**

Characteristic	Symbol	Value	Unit
Non-repetitive peak impulse current	IPP	50A	10/1000us
Non-repetitive peak On-state current	I <sub>TSM</sub>	20A	8.3ms, one-half cycle
Operating temperature range	T <sub>OP</sub>	-40~125°C	
Junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55~150°C	

#### **Thermal Resistance**

Characteristic	Symbol	Value	Unit
Thermal Resistance junction to lead	$R_{\theta JL}$	30°C/W	
Thermal Resistance junction to ambient	$R_{\theta}JA$	120°C/W	On recommended pad layout
Typical positive temperature coefficient for breakdown voltage	∆V <sub>BR</sub> /∆T <sub>J</sub>	0.1%/℃	

### Transient Voltage Protection Device 65 Volts



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0.070"

### TSMBJ0305C-072



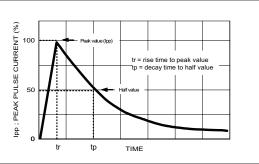
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Parameter	Rated Repetitive Off -state Voltage	Ų	Breakover Voltage	On-State Voltage @l <sub>T</sub> =1.0A	Breakover Current	Holding Current	Off-State Capacitance
Symbol	V <sub>DRM</sub>	I <sub>DRM</sub>	V <sub>BO</sub>	V <sub>T</sub>	I <sub>BO+</sub>	I <sub>H-</sub>	CJ
Units	Volts	uA	Volts	Volts	mA	mA	pF
Limit	Max	Max	Max	Max	Max	Min	Тур.
TSMBJ0305C-072	65	5	88	5	800	150	100

#### ELECTRICAL CHARACTERISTIC @25: Unless otherwise specified

#### MAXIMUM RATED SURGE WAVEFORM

Waveform	Standard	lpp (A)	
2/10 us	GR-1089-CORE	200	(%) L 100
8/20 us	IEC 61000-4-5	150	
10/160 us	FCC Part 68	100	U U U U U U U U U U U U U U U U U U U
10/700 us	ITU-T K20/21	60	PEAK PI
10/560 us	FCC Part 68	60	dd o
10/1000 us	GR-1089-CORE	50	



Symbol	Parameter	
$V_{\text{DRM}}$	Stand-off voltage	
I <sub>DRM</sub>	Leakage current at stand-off voltage	
$V_{\scriptscriptstyle BR}$	Breakdown voltage	
I <sub>BR</sub>	Breakdown current	I <sub>H</sub> I
$V_{\text{BO}}$	Breakover voltage	
I <sub>BO</sub>	Breakover current	
I <sub>H</sub>	Holding current NOTE: 1	
V <sub>T</sub>	On state voltage	
I <sub>PP</sub>	Peak pulse current	
Co	Off-state capacitance NOTE: 2	

NOTE :

1. I  $_{\rm H}$  > ( V  $_{\rm L}$ / R  $_{\rm L}$ ) If this criterion is not obeyed, the TSPD triggers but does not return correctly to high-resistance state. The surge recovery time. It does not exceed 30ms.

2. Off-state capacitance measured at f=1.0MHz , 1.0Vrms signal , VR=2Vdc bias.

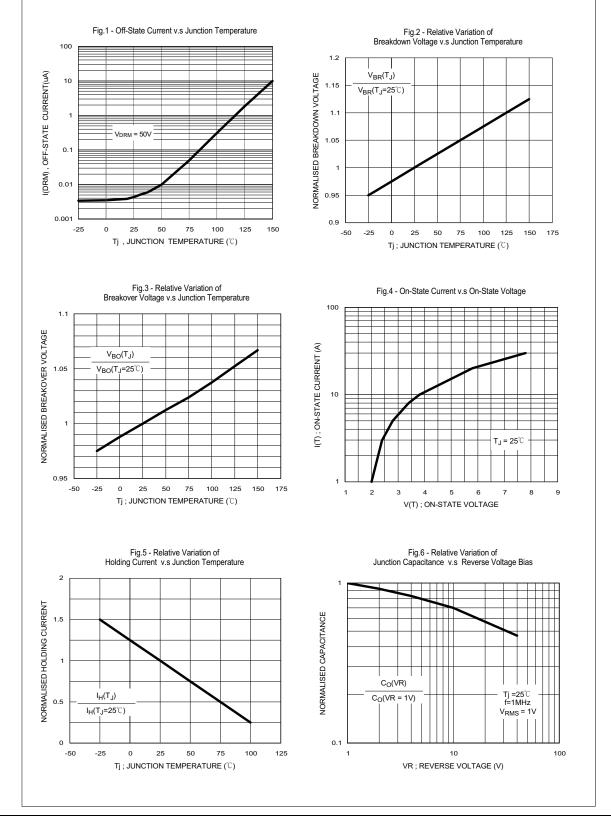
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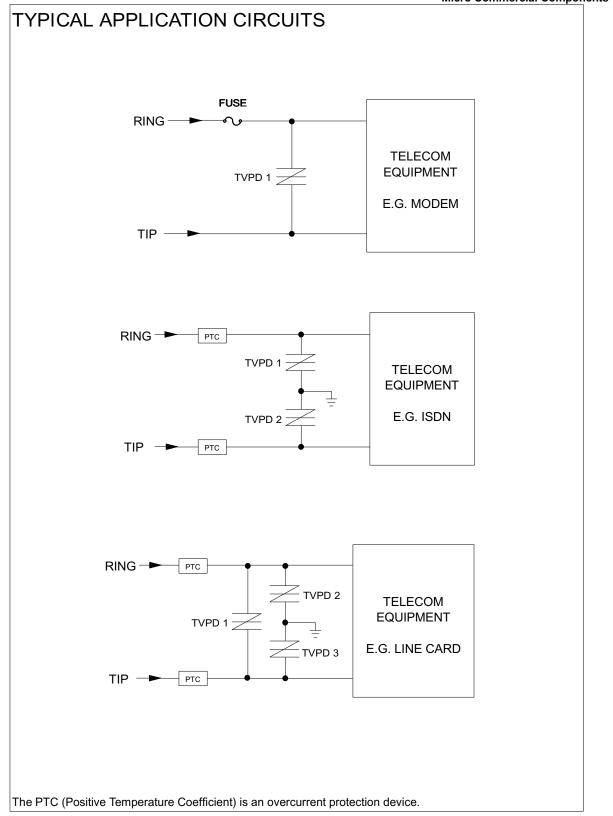


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### **MARKING CODE**



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