

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!



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Micro Commercial Components

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TSMBJ1005C-064

Features

- Oxide-Glass passivated Junction
- Bi-Directional protection in a single device
- Surge capabilities up to 100A@10/1000us or 400A@8/20us
- High Off-State impedance and Low On-State voltage
- Plastic material has UL flammability classification 94V-0

Transient Voltage Protection Device 58 Volts

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	l _{PP}	100A	10/1000us
Non-repetitive peak On-state current	I _{TSM}	50A	8.3ms, one-half cycle
Operating temperature range	T_{OP}	-40~150°C	
Junction and storage temperature range	T_J , T_{STG}	-55~150°C	

DO-214AA (SMBJ)

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.078	.096	2.00	2.44	
В	.077	.083	1.96	2.10	
С	.002	.008	.05	.20	
D		.02		.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.205	.220	5.21	5.59	
Н	.160	.180	4.06	4.57	
J	.130	.155	3.30	3.94	

SUGGESTED SOLDER PAD LAYOUT 0.090" 0.085" 0.070"

Thermal Resistance

Characteristic	Symbol	Value	Unit
Thermal Resistance junction to lead	$R_{ hetaJL}$	20°C/W	
Thermal Resistance junction to ambient	$R_{ heta JA}$	100°C/W	On recommended pad layout
Typical positive temperature coefficient for breakdown voltage	∆V _{BR} /∆TJ	0.1%/℃	

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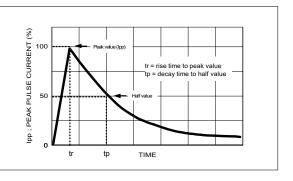
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ELECTRICAL CHARACTERISTIC @25: Unless otherwise specified

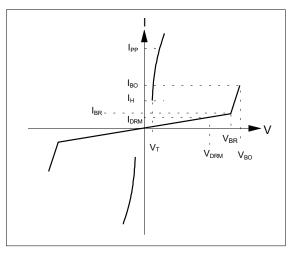
<u> </u>							
Parameter	Rated Repetitive Off -state Voltage	Leakage	Breakover Voltage	On-State Voltage @I _T =1.0A	Breakover Current	Holding Current	Off-State Capacitance
Symbol	V_{DRM}	I_{DRM}	V_{BO}	V_T	I _{BO+}	I _{H-}	CJ
Units	Volts	uA	Volts	Volts	mA	mA	pF
Limit	Max	Max	Max	Max	Max	Min	Тур.
TSMBJ1005C-064	58	5	77	5	800	150	200

MAXIMUM RATED SURGE WAVEFORM

W D CONTROL TO CO E D CO					
Waveform	Standard	Ipp (A)			
2/10 us	GR-1089-CORE	500			
8/20 us	IEC 61000-4-5	400			
10/160 us	FCC Part 68	200			
10/700 us	ITU-T K20/21	200			
10/560 us	FCC Part 68	150			
10/1000 us	GR-1089-CORE	100			



Symbol	Parameter
V_{DRM}	Stand-off voltage
I _{DRM}	Leakage current at stand-off voltage
V_{BR}	Breakdown voltage
I _{BR}	Breakdown current
V _{BO}	Breakover voltage
I _{BO}	Breakover current
I _H	Holding current NOTE: 1
V _T	On state voltage
I _{PP}	Peak pulse current
Co	Off-state capacitance NOTE: 2



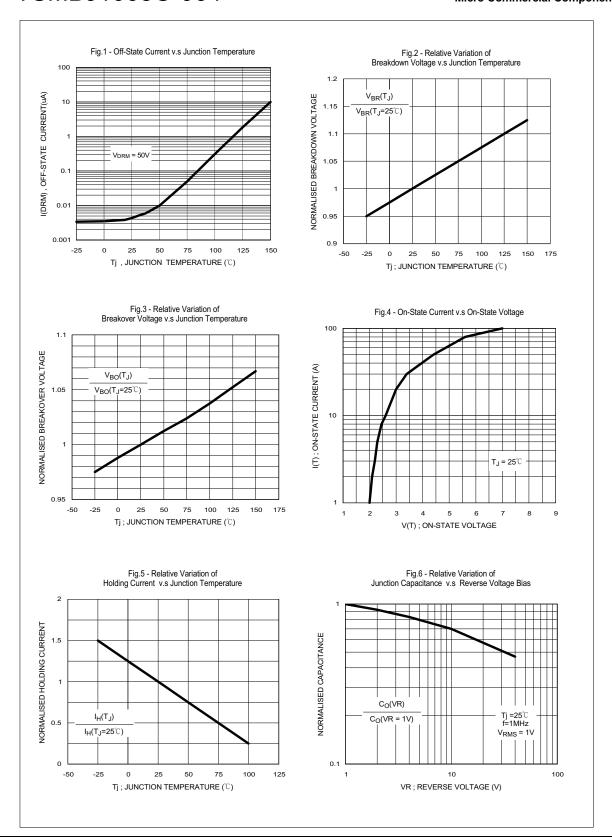
NOTE

^{1.1} $_{H}$ > ($_{V}$ L/ $_{L}$) 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.



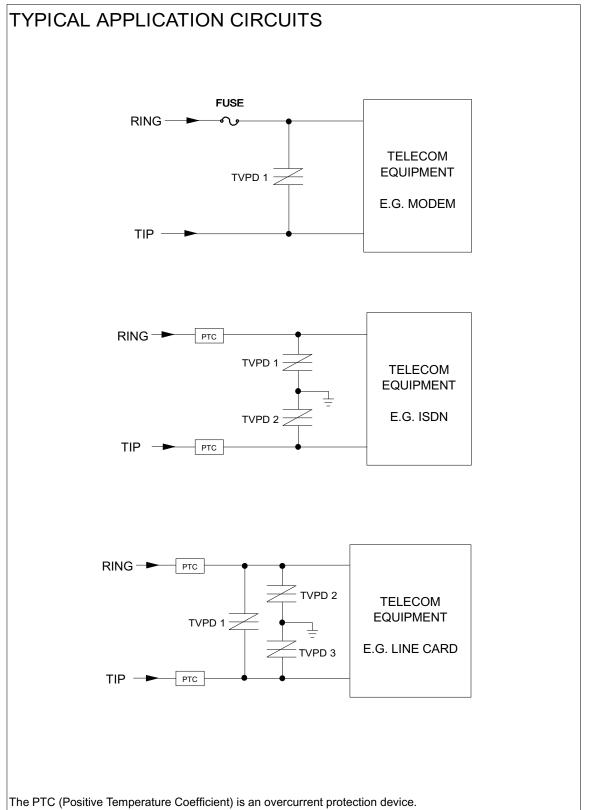
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