

**M·C·C·**

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**TSMBJ0306C  
THRU  
TSMBJ0324C**

## 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 Rating

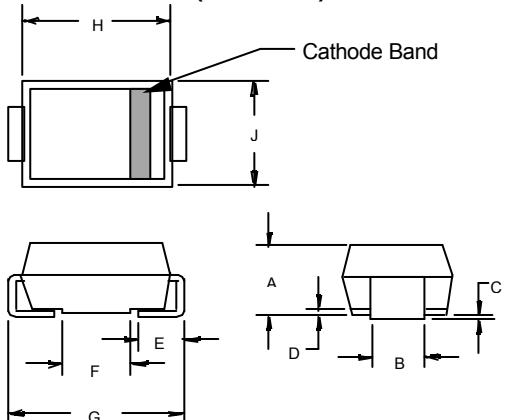
Characteristic	Symbol	Value	Unit
Non-repetitive peak impulse current	$I_{PP}$	50A	10/1000us
Non-repetitive peak On-state current	$I_{TSM}$	20A	8.3ms, one-half cycle
Operating temperature range	$T_{OP}$	-40~125°C	
Junction and storage temperature range	$T_J, T_{STG}$	-55~150°C	

## 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	$\Delta V_{BR}/\Delta T_J$	0.1%/°C	

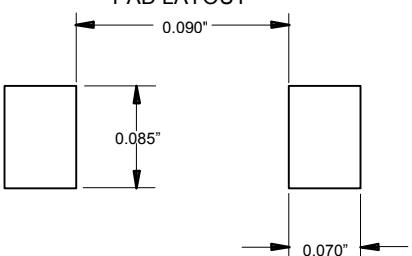
**Transient Voltage Protection Device  
75 to 320 Volts**

**DO-214AA  
(SMBJ)**



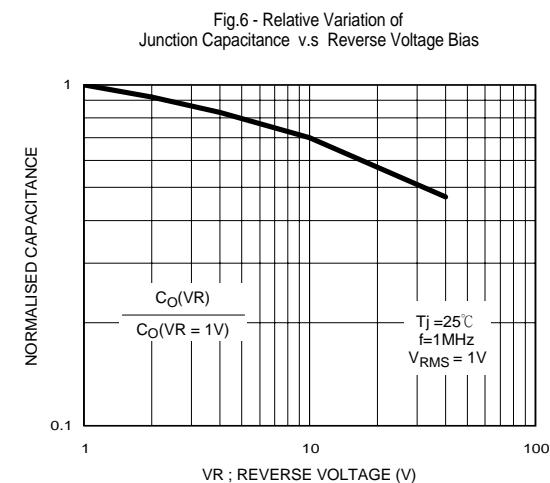
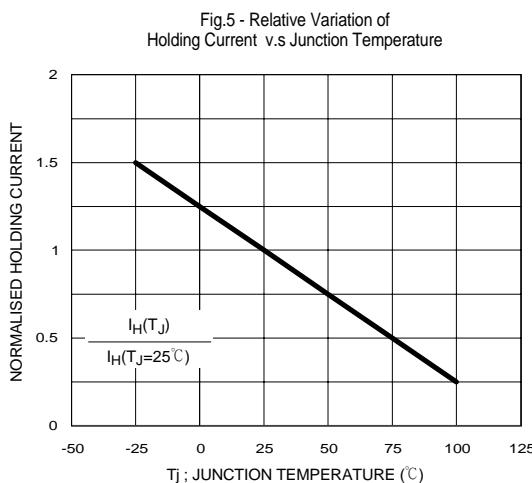
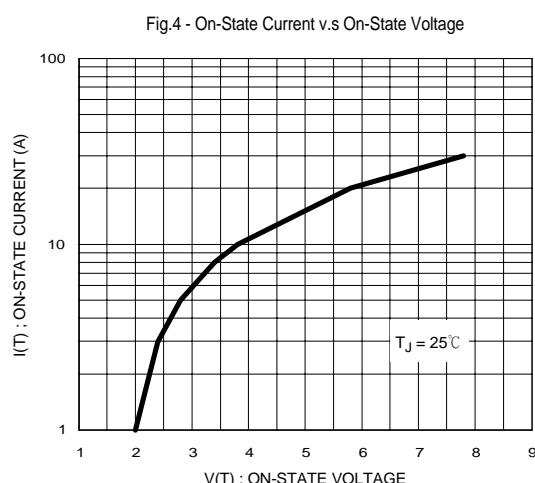
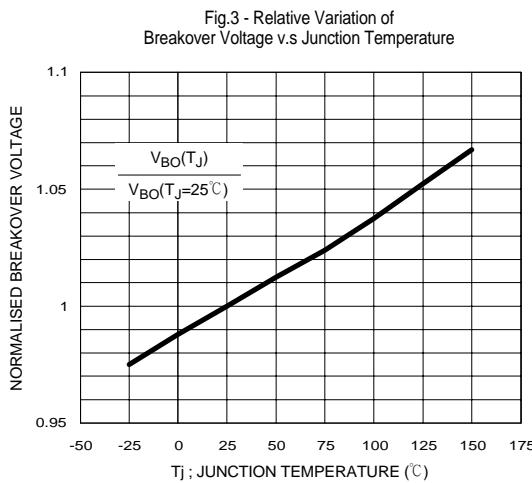
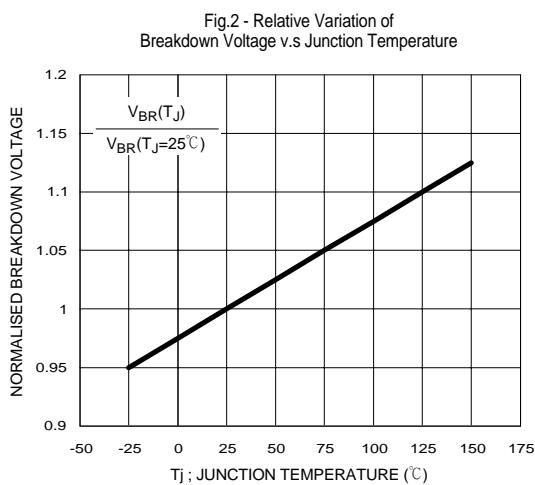
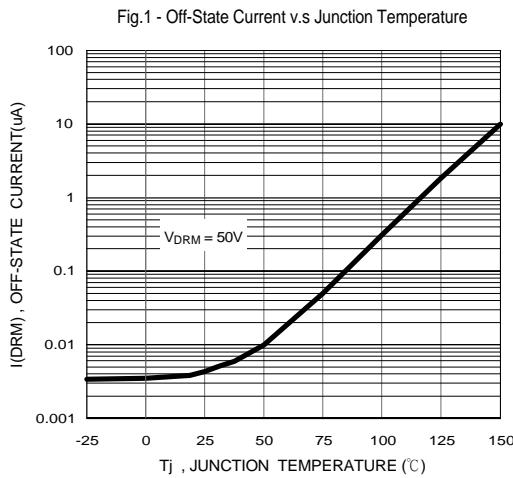
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.078	.096	2.00	2.44	
B	.077	.083	1.96	2.10	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.205	.220	5.21	5.59	
H	.160	.180	4.06	4.57	
J	.130	.155	3.30	3.94	

SUGGESTED SOLDER PAD LAYOUT



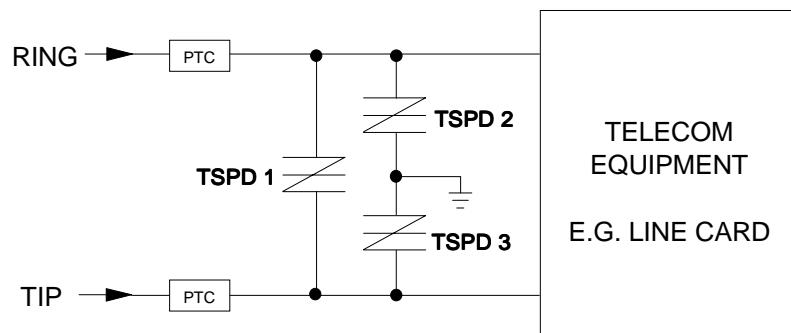
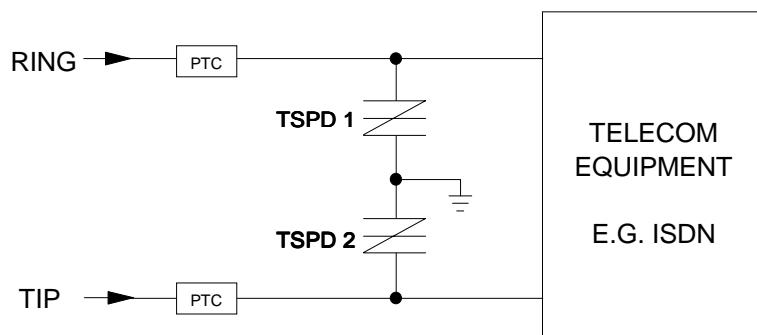
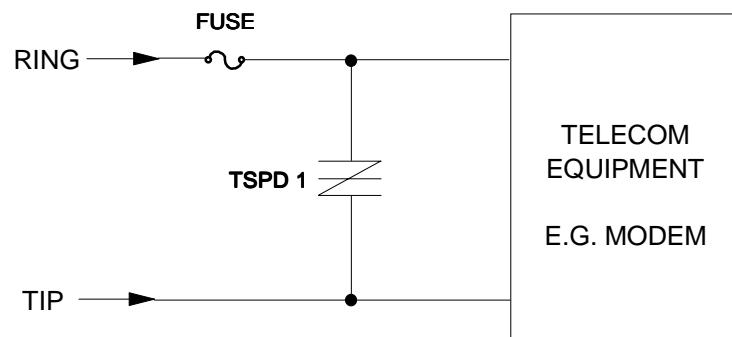


# TSMBJ0306C thru TSMBJ0324C



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TYPICAL APPLICATION CIRCUITS



The PTC (Positive Temperature Coefficient) is an overcurrent protection device.