



# 1N5347BS~1N5369BS

## SILICON ZENER DIODES

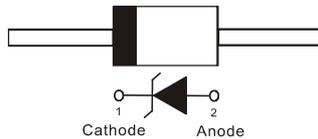
<b>VOLTAGE</b>	<b>10~51 Volt</b>	<b>POWER</b>	<b>5 Watt</b>
----------------	-------------------	--------------	---------------

### FEATURES

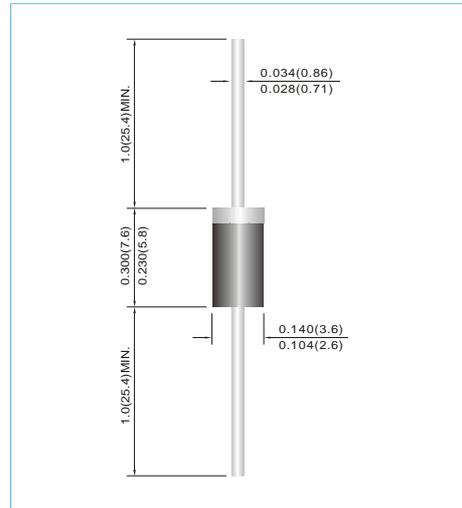
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

- Case: JEDEC DO-15, Molded plastic over passivated junction
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.014 ounce, 0.0397 gram
- Marking: Part number



**DO-15** Unit : inch(mm)



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Power Dissipation (NOTE 1)	$P_D$	5	W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

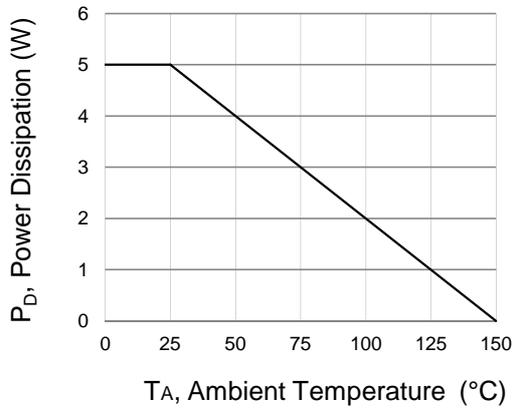
**NOTE :**

1. The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 0 mm lead length between two 10cm x 10cm copper pad

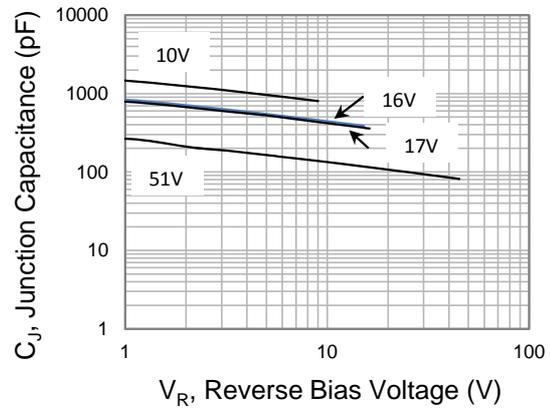
Part Number	Nominal Zener Voltage			Maximum Zener Impedance				Maximum Leakage Current	
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R$	$V_R$
	Nom. V	Min. V	Max. V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V
1N5347BS	10	9.5	10.5	2	125	125	1	5	7.6
1N5353BS	16	15.2	16.8	2.5	75	75	1	1	12.2
1N5354BS	17	16.15	17.85	2.5	70	75	1	0.5	12.9
1N5369BS	51	48.45	53.55	27	25	230	1	0.5	38.8



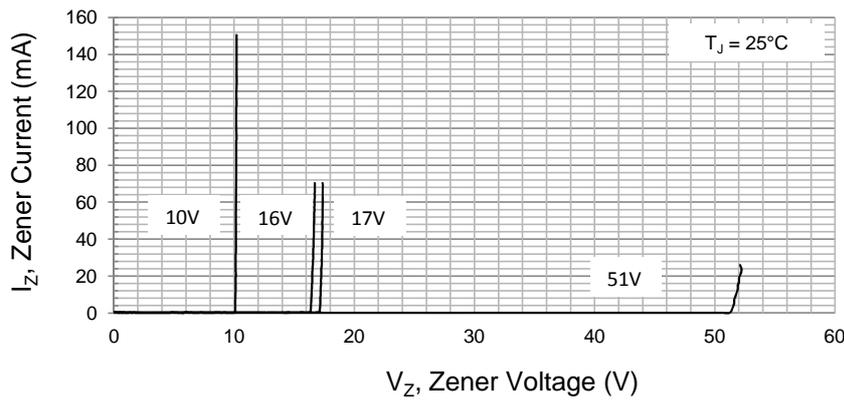
## 1N5347BS~1N5369BS



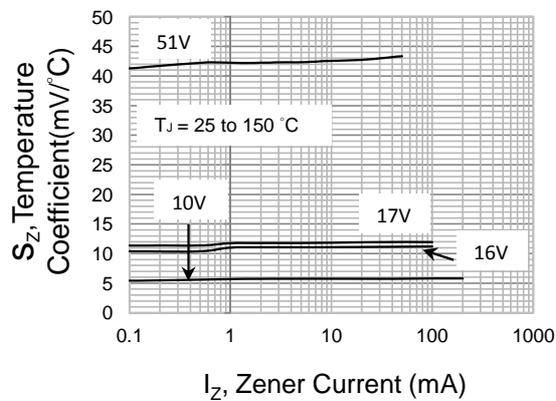
**Fig.1 Steady-State Power Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Zener Characteristics**



**Fig.4 Temperature Coefficient As A Function Of Working Current; Typical Values**



## 1N5347BS~1N5369BS

### Part No\_packing code\_Version

1N5347BS\_AY\_00001  
 1N5347BS\_AY\_10001  
 1N5347BS\_B0\_00001  
 1N5347BS\_B0\_10001  
 1N5347BS\_R2\_00001  
 1N5347BS\_R2\_10001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



## 1N5347BS~1N5369BS

---

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.