



# 1N5347BS~1N5369BS

## SILICON ZENER DIODES

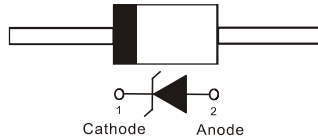
<b>VOLTAGE</b>	<b>10~51 Volt</b>	<b>POWER</b>	<b>5 Watt</b>
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### FEATURES

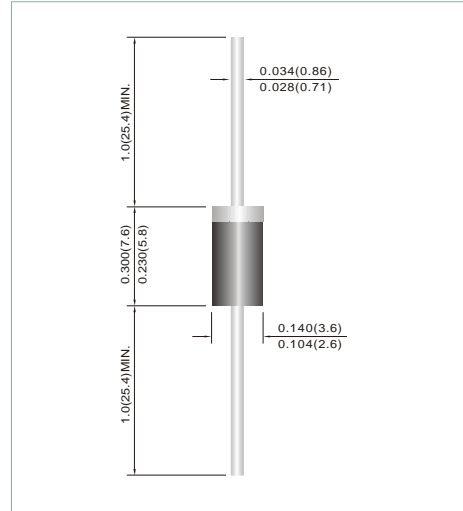
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive

### 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

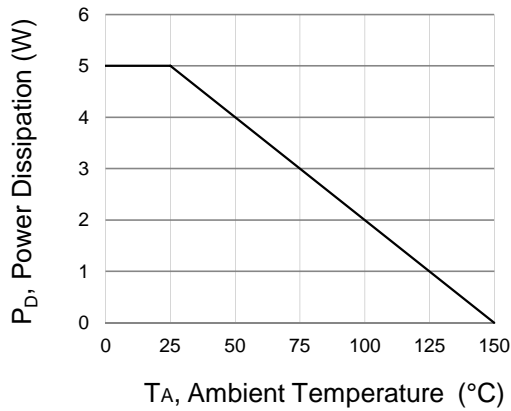
### NOTE :

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

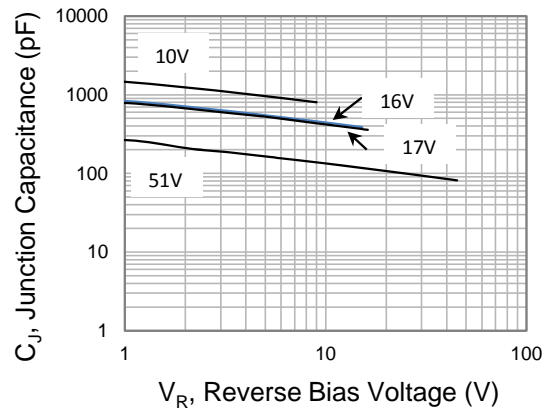
Part Number	Nominal Zener Voltage			Maximum Zener Impedance				Maximum Leakage Current	
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R$	$V_R$
	Nom. V	Min. V	Max. V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V
1N5347BS	10	9.5	10.5	2	125	125	1	5	7.6
1N5353BS	16	15.2	16.8	2.5	75	75	1	1	12.2
1N5354BS	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



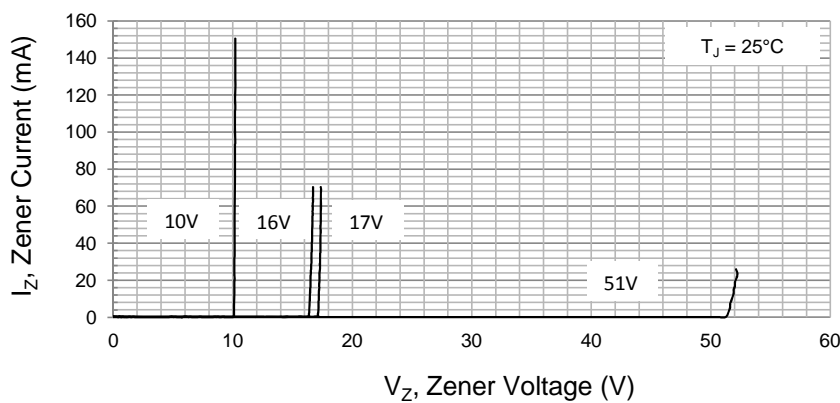
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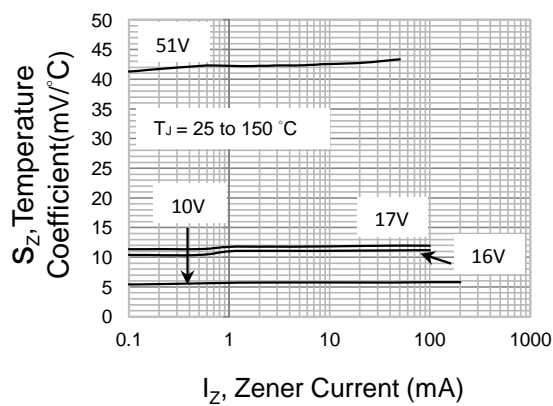
**Fig.1 Steady-State Power Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Zener Characteristics**



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



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### 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			



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