



# 3EZ5.6S~3EZ47S

## SILICON ZENER DIODE

**VOLTAGE**

**5.6V~47V**

**POWER**

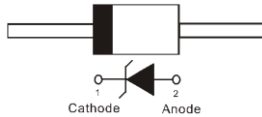
**3Watt**

### Features

- Low inductance
- High temperature soldering : 260 °C/10 seconds at terminals
- Lead free in compliance with EU RoHS2.0

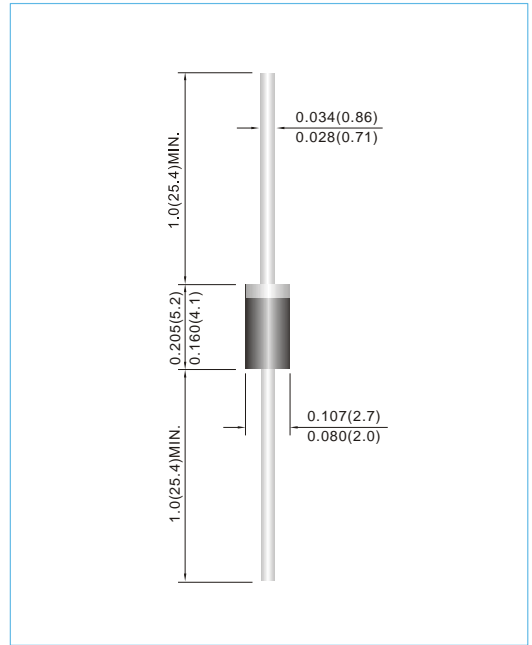
### Mechanical Data

- Case: JEDEC DO-41, Molded plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.012 ounces, 0.336 grams



**DO-41**

Unit : inch(mm)



### Maximum Ratings ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation at $T_A=25^{\circ}\text{C}$ (Notes A)	$P_D$	3	W
Operating Junction Temperature Range	$T_J$	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$

#### NOTES:

A. Mounted on  $5\text{mm}^2$  (0.013mm thick) land areas.



## 3EZ5.6S~3EZ47S

Electrical Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Part Number	Nominal Zener Voltage			Nominal Zener Impedance				Max. Reverse Leakage Current		Marking Code	
	$V_Z$			$I_{ZT}$	$Z_{ZT}@I_{ZT}$	$I_{ZT}$	$Z_{ZK}@I_{ZK}$	$I_{ZK}$	$I_R@V_R$		
	Nom. V	Min. V	Max. V	mA	$\Omega$	mA	$\Omega$	mA	$\mu\text{A}$		V
3EZ5.6S	5.6	5.32	5.88	45	5	45	600	1	10	2	3EZ5.6S
3EZ6.2S	6.2	5.89	6.51	41	2	41	700	1	5	3	3EZ6.2S
3EZ6.8S	6.8	6.46	7.14	37	3.5	37	700	1	5	4	3EZ6.8S
3EZ8.2S	8.2	7.79	8.61	31	4.5	31	700	1	5	6	3EZ8.2S
3EZ9.1S	9.1	8.64	9.56	28	5	28	700	0.5	3	7	3EZ9.1S
3EZ10S	10	9.5	10.5	37.5	5	37.5	500	0.25	3	7.6	3EZ10S
3EZ11S	11	10.45	11.55	34.1	6	34.1	550	0.25	1	8.4	3EZ11S
3EZ12S	12	11.4	12.6	21	9	21	700	0.25	1	9.1	3EZ12S
3EZ13S	13	12.35	13.65	19	10	19	700	0.25	0.5	9.9	3EZ13S
3EZ15S	15	14.25	15.75	17	14	17	700	0.25	0.5	11.4	3EZ15S
3EZ18S	18	17.1	18.9	14	20	14	750	0.25	0.5	13.7	3EZ18S
3EZ20S	20	19	21	12.5	22	12.5	750	0.25	0.5	15.2	3EZ20S
3EZ22S	22	20.9	23.1	11.5	23	11.5	750	0.25	0.5	16.7	3EZ22S
3EZ24S	24	22.8	25.2	10.5	25	10.5	750	0.25	0.5	18.2	3EZ24S
3EZ27S	27	25.65	28.35	9.5	35	9.5	750	0.25	0.5	20.6	3EZ27S
3EZ43S	43	40.85	45.15	6	70	6	1500	0.25	0.5	32.7	3EZ43S
3EZ47S	47	44.65	49.35	5.5	80	5.5	1500	0.25	0.5	35.8	3EZ47S



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## TYPICAL CHARACTERISTIC CURVES

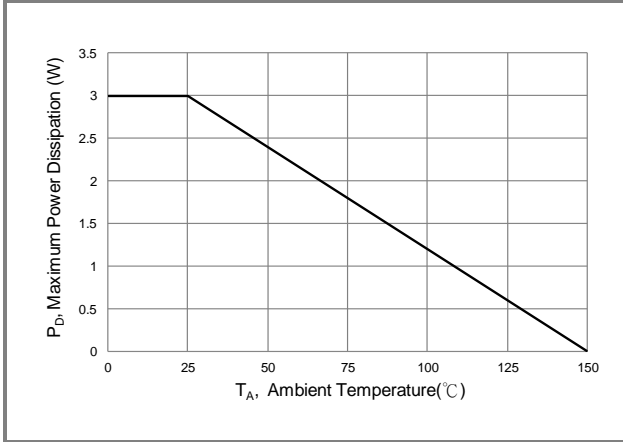


Fig.1 Steady-State Power Derating Curve

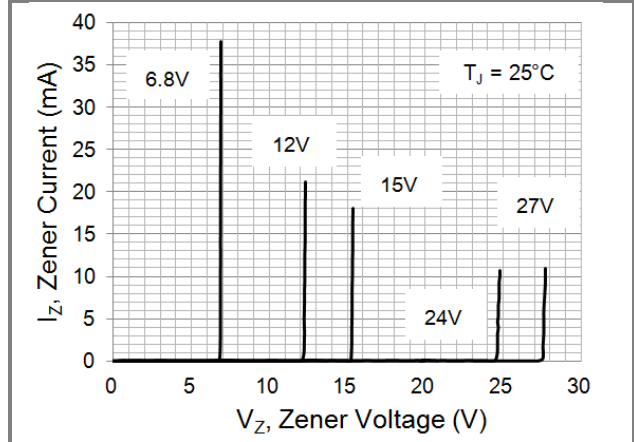


Fig.2 Typical Zener Breakdown Characteristics



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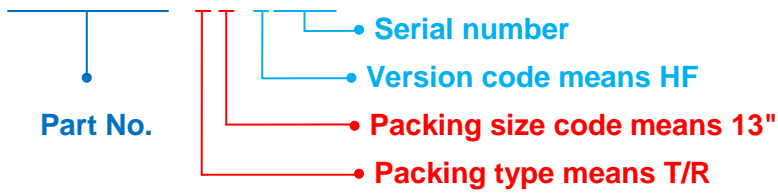
### MOUNTING PAD LAYOUT

#### Part No\_packing code\_Version

3EZ5.6S\_AY\_00001  
 3EZ5.6S\_AY\_10001  
 3EZ5.6S\_B0\_00001  
 3EZ5.6S\_B0\_10001  
 3EZ5.6S\_R2\_00001  
 3EZ5.6S\_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)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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