



# DZ23C27-AU

## DUAL SURFACE MOUNT ZENER DIODES

<b>VOLTAGE</b>	<b>27 Volt</b>	<b>POWER</b>	<b>300 mWatt</b>
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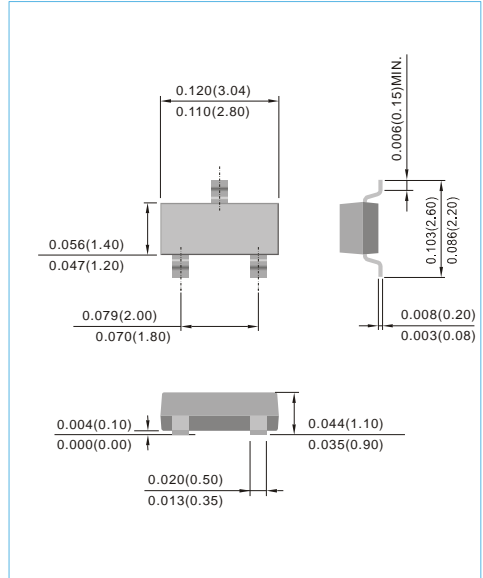
<b>SOT-23</b>	Unit : inch(mm)
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### FEATURES

- Dual Zeners in Common Cathode Configuration
- 300mW Power Dissipation Rating
- Zener Voltages from 27V
- Ideally Suited for Automatic Insertion
- Common Anode Style Available See AZ Series
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified

### MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.008 grams



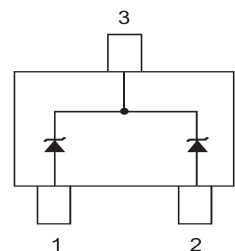
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation (Note 1)	$P_D$	300	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	420	$^{\circ}C/W$
Operating Junction Temperature and Storage Temperature Range	$T_J, T_{STG}$	-65 to +150	$^{\circ}C$

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		
	Nom. V	Min. V	Max. V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V	
DZ23C27-AU	27	25.65	28.35	80	5.0	300	1.00	0.1	20.0	V25

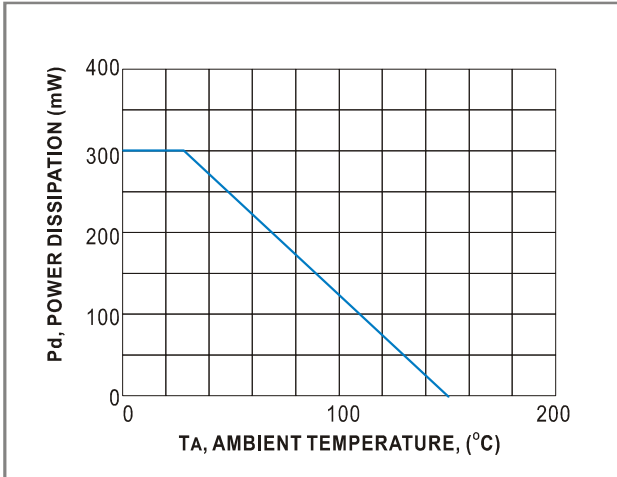
### NOTES :

1. Mounted on 5mm<sup>2</sup>(0.013mm thick) land areas.

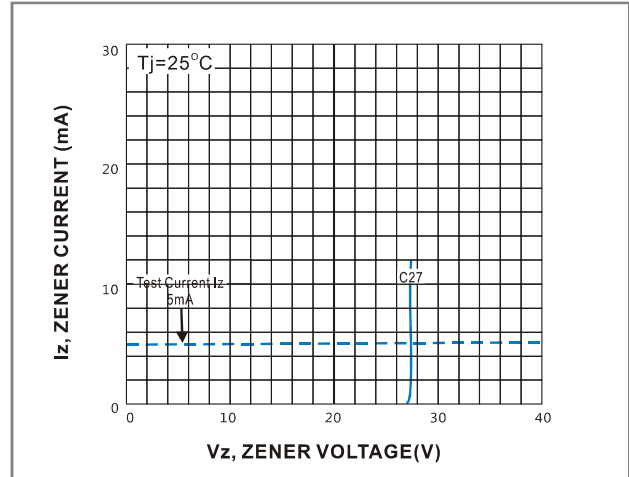




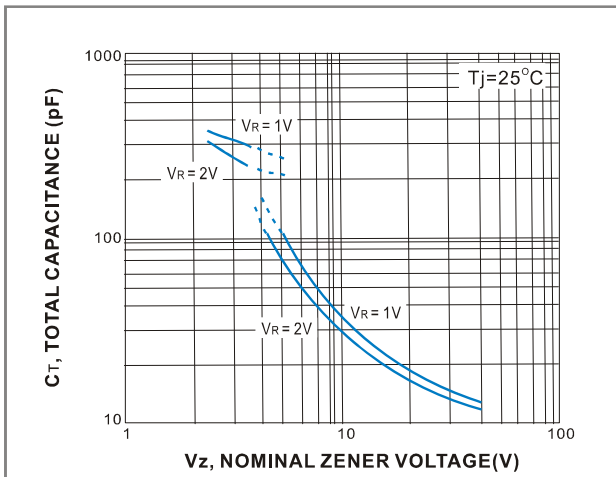
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**Fig.1 POWER DERATING CURVE**



**Fig.2 ZENER BREAKDOWN CHARACTERISTICS**



**Fig.3 TOTAL CAPACITANCE VS NOMINAL ZENER VOLTAGE**

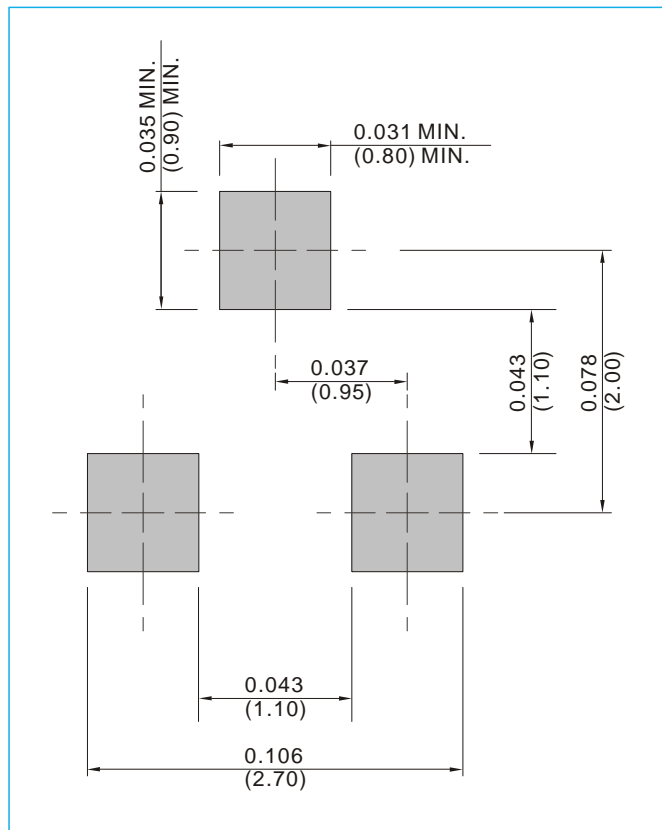


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## MOUNTING PAD LAYOUT

**SOT-23**

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel



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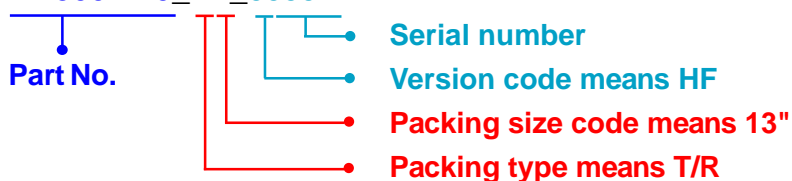
## Part No\_packing code\_Version

DZ23C27-AU\_R1\_000A1

DZ23C27-AU\_R2\_000A1

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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