



**CHENMKO ENTERPRISE CO.,LTD**

*Halogens free devices*

**SURFACE MOUNT ZENER**

**SILICON PLANAR POWER ZENER DIODES**

**VOLTAGE RANGE 15 V**

**CHAZ4744BGP-A**

**FEATURE**

- \* High temperature soldering type.

**MECHANICAL**

- \* SMA Packaging.
- \* Cathode indicated by polarity band.

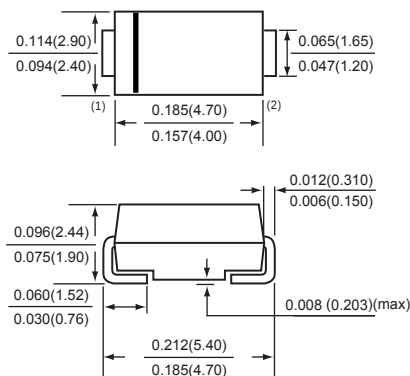
**MARKING**

- \* 4744

**CIRCUIT**



**SMA**



Dimensions in inches and (millimeters)

**SMA**

**MAXIMUM RATINGS** ( At  $T_A = 25^{\circ}\text{C}$  unless otherwise noted )

| RATINGS                                                        | SYMBOL    | VALUE       | UNITS              |
|----------------------------------------------------------------|-----------|-------------|--------------------|
| Zener Current ( see Table "Characteristics" )                  | -         | -           | -                  |
| Max. Steady State Power Dissipation @ $T_A=25^{\circ}\text{C}$ | $P_D$     | 1.0         | W                  |
| Max. Operating Temperature Range                               | $T_J$     | -65 to +150 | $^{\circ}\text{C}$ |
| Storage Temperature Range                                      | $T_{STG}$ | -65 to +150 | $^{\circ}\text{C}$ |

**ELECTRICAL CHARACTERISTICS** ( At  $T_A = 25^{\circ}\text{C}$  unless otherwise noted )

| TYPE          | Zener voltage<br>V <sub>Z</sub> (V) @ I <sub>ZT</sub> |       |       | Test<br>current      | Maximum Zener impedance                      |                        |                               | Maximum<br>reverse leakage current |                          |
|---------------|-------------------------------------------------------|-------|-------|----------------------|----------------------------------------------|------------------------|-------------------------------|------------------------------------|--------------------------|
|               | Min                                                   | Nom   | Max   | I <sub>ZT</sub> (mA) | Z <sub>ZT</sub><br>at I <sub>ZT</sub><br>(Ω) | Z <sub>ZK</sub><br>(Ω) | at<br>I <sub>ZK</sub><br>(mA) | I <sub>R</sub><br>(μA)             | at V <sub>R</sub><br>(V) |
|               | Volts                                                 | Volts | Volts |                      |                                              |                        |                               |                                    |                          |
| CHAZ4744BGP-A | 14.25                                                 | 15    | 15.75 | 17                   | 14                                           | 700                    | 0.25                          | 5                                  | 11.4                     |

2015-03

## RATING CHARACTERISTIC CURVES ( CHAZ4744BGP-A )

FIG. 1 - TYPICAL TEMPERATURE COEFFICIENTS)

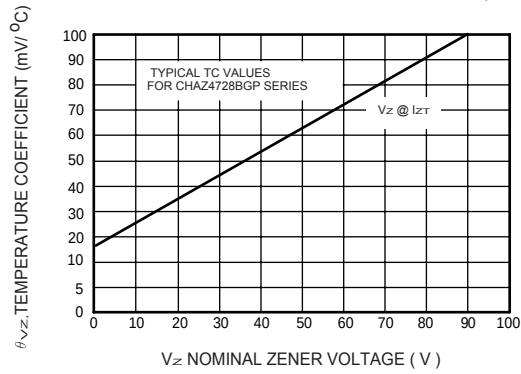


FIG. 2 - TYPICAL LEAKAGE CURRENT

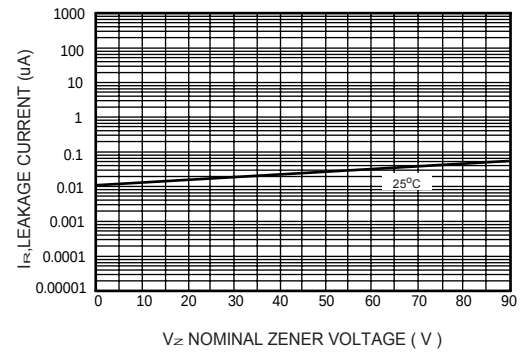


FIG. 3 - ZENER VOLTAGE VERSUS ZENER CURRENT

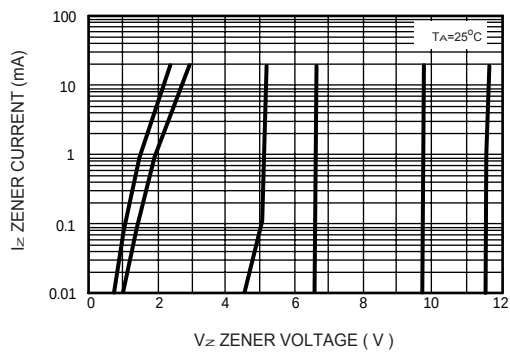


FIG. 4 - ZENER VOLTAGE VERSUS ZENER CURRENT

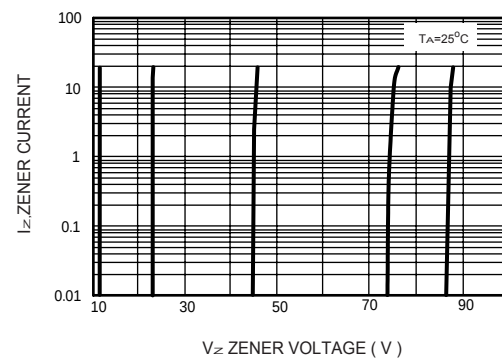
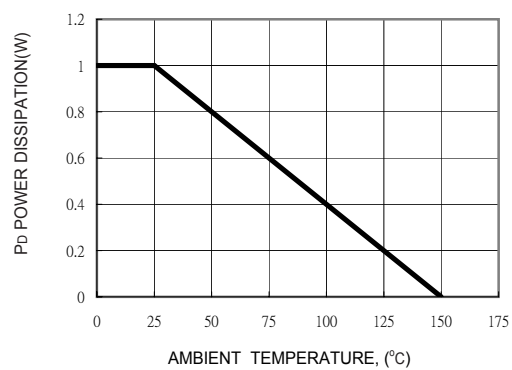


FIG. 5 - TYPICAL POWER DISSIPATION DERATING CURVE





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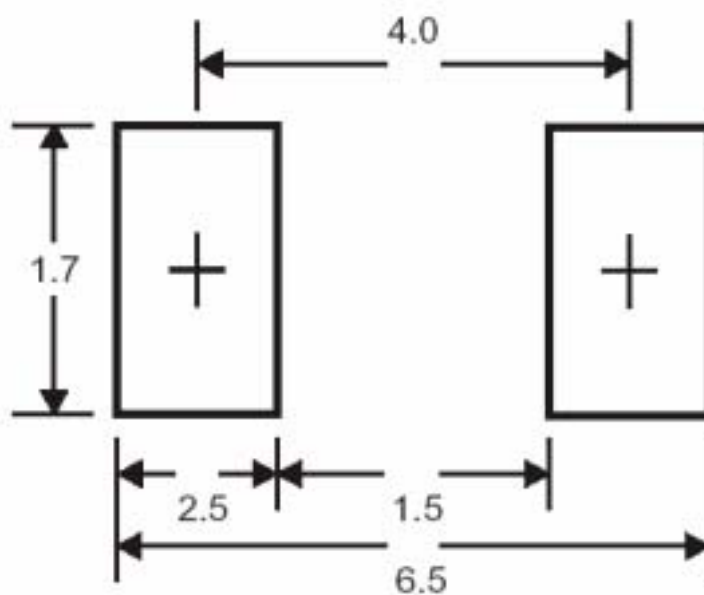
**SURFACE MOUNT**

*RECOMMENDED FOOT PRINT*

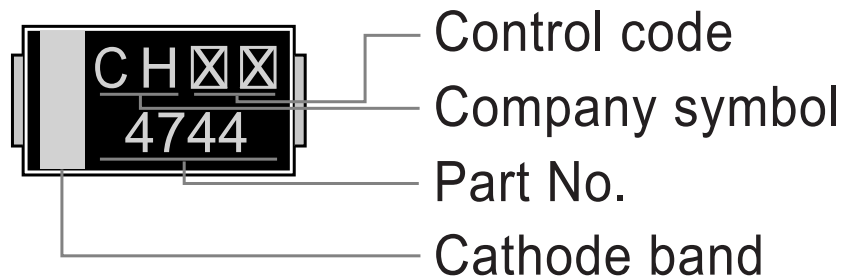
*all dimensions in mm*

**SMA**

**SMA**



## The Marking and Part No. for CHAZ4744BGP-A (SMA)



Control code:

\* First Digital(X1): Year code  
Example : 2015-----5  
          2014-----4

\* Second letter(X2): Month code  
Example : Jan-----a  
          Feb-----b

PART No.:

4 7 4 4

└─── Marking Code

|            |                  |                                                                                                          |
|------------|------------------|----------------------------------------------------------------------------------------------------------|
| CUSTOMER : | APPROVED : JASON |  <b>CHENMKO LTD.</b> |
| APPROVED : | CHECKED : ANGEL  |                                                                                                          |
| CHECKED :  | DRAWN : DANY     | DRAWING No. :                                                                                            |