



Features

- Glass passivated pellet chip junction
- Low profile package
- Ideal for automated placement
- Low reverse current
- High reverse voltage
- Ultra fast reverse recovery time
- RoHs, REACH and WEEE compliant.

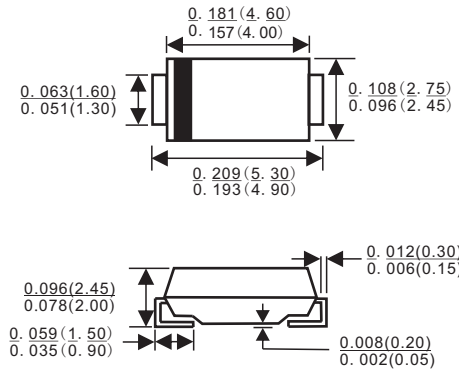
Typical Applications

- For use in high voltage,high frequency rectification specially suited for freewheeling,clamping,snubbing in power supply,ignition drive of HID,UHP and industrial ballast and snubber for PDP TV power supply application.

Mechanical Data

- Package:SMA(DO-214AC)
Molding compound meets UL 94 V-0 flammability Rating,RoHS-compliant.
- Terminals: Tin plated leads,solderable per J-STD-002 and JESD22-B102.
- Moisture Sensitivity: MSL Level 1,per J-STD-020 Solderable per MIL-STD-202 Method 208
- Polarity:As marked

SMA/DO-214AC



Dimensions in inches and(millimeters)

■Maximum Ratings(Ta= 25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | BYG23T |
|---|-----------|------|---------|
| Device marking code | | | BYG23T |
| Maximum repetitive Peak Reverse Voltage | V_{RRM} | V | 1300 |
| Maximum DC forward Current(fig.1) | I_F | A | 1.0 |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | A | 18 |
| Pulse energy in avalahche mode,non repetitive (inductive load switch off) $I_{(BR)}=0.4A, T_L=25^\circ C$ | E_R | mJ | 5.0 |
| Storage temperature range | T_{stg} | °C | -55~150 |
| Junction temperature | T_j | °C | -55~150 |
| Junction capacitance@4.0V,1MHz | C_J | pF | 9.0 |



■Electrical Characteristics

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | Min | Typ | Max |
|--|------------|----------|--|-----|------|------|
| Instantaneous forward voltage | V_F | V | $I_F=1.0A@T_A=25^{\circ}C$ | - | 1.74 | 1.90 |
| | | | $I_F=1.0A@T_A=125^{\circ}C$ | - | 1.39 | 1.65 |
| DC reverse current at rated DC blocking voltage per diode | I_{RRM1} | μA | $V_{RM}=V_{RRM}$ $T_A=25^{\circ}C$ | - | 1.0 | 5.0 |
| | I_{RRM2} | | $V_{RM}=V_{RRM}$ $T_A=125^{\circ}C$ | - | 2.9 | 50 |
| Reverse Recovery Time | T_{rr} | ns | $I_F=0.5A, I_{RM}=1A$ $I_{RR}=0.25A, T_A=25^{\circ}C$ | - | 65 | 75 |

■Thermal Characteristics(T a= 25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | MUR1610CT |
|--|------------------|---------------|-----------|
| Thermal Resistance Between junction and mount | $R_{\theta J-M}$ | $^{\circ}C/W$ | 20 |
| Thermal Resistance Between junction and Air | $R_{\theta J-A}$ | $^{\circ}C/W$ | 120 |

■Ordering Information(Example)

| PREFERED P/N | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| BYG23T | Approximate 0.068 | 5000 | 10000 | 80000 | REEL |



■ RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

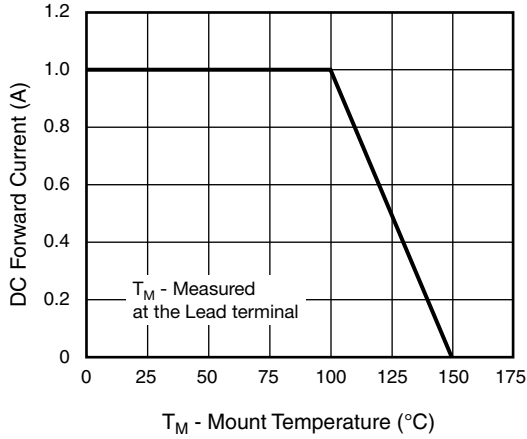


Fig. 1 - Max. Forward Current Derating Curve

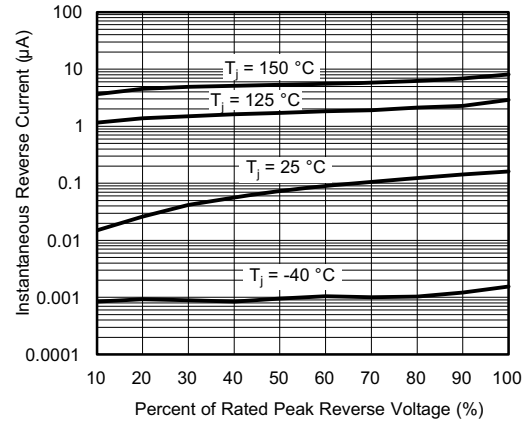


Fig. 4 - Typical Reverse Characteristics

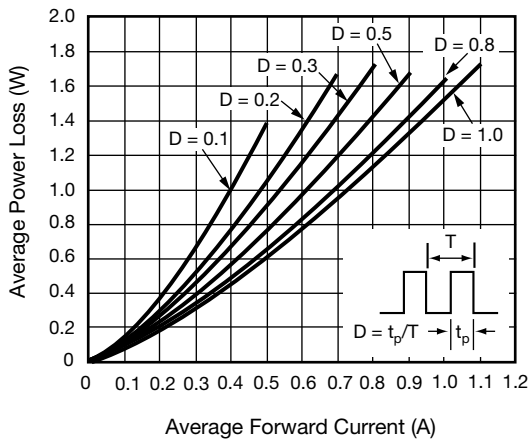


Fig. 2 - Forward Power Loss Characteristics

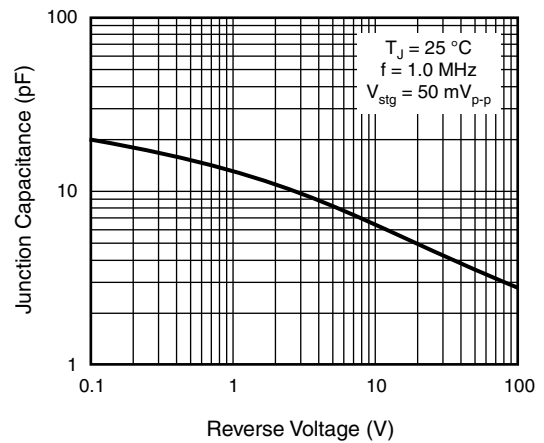


Fig. 5 - Typical Junction Capacitance

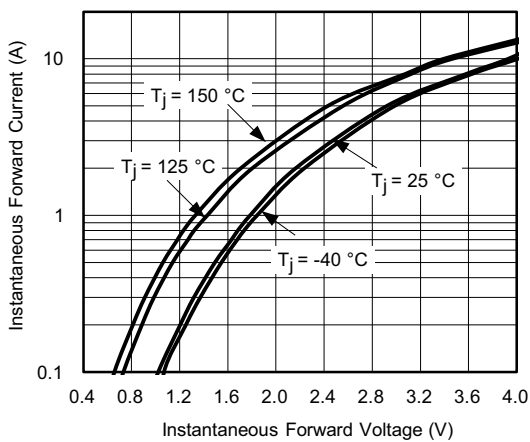


Fig. 3 - Typical Instantaneous Forward Characteristics

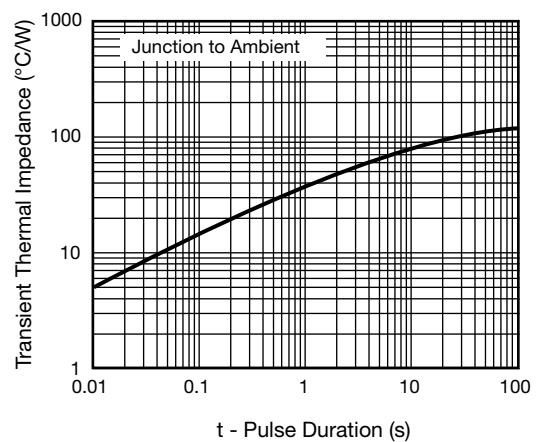


Fig. 6 - Typical Transient Thermal Impedance

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