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Features

- Halogen free available upon request by adding suffix "-HF"
- Fast Switching Speed
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Marking Code: T5
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Maximum Ratings @ 25°C Unless Otherwise Specified

| Reverse Voltage | V _R | 100 | V |
|----------------------------|-----------------------------------|-------------|------|
| Peak Reverse Voltage | V _{RM} | 100 | V |
| Average Rectified Current | م | 250 | mA |
| Peak Forward Surge Current | I _{FSM} | 2 | А |
| Power Dissipation | PD | 500 | mW |
| Thermal Resistance* | Rthja | 250 | °C/W |
| Operation/Storage Temp. | T _i , T _{stg} | -55 to +150 | °C |
| Range | | | |

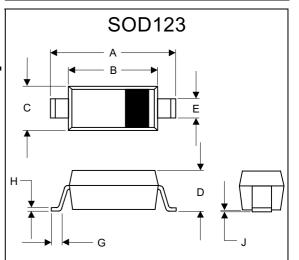
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Maximum Instantaneous Forward Voltage | V _F | 1.0V | I _{FM} = 100mA; T _J = 25°C (Note 1) |
|--|-----------------|-----------------------|--|
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 25nA 50μA 2.5μA | $V_{R}=20 \text{Volts}$ $T_{J} = 25^{\circ}\text{C}$ $T_{J} = 150^{\circ}\text{C}$ $V_{R}=75 \text{Volts}$ |
| Typical Junction Capacitance | CJ | 4pF | Measured at 1.0MHz, V _R =4.0V |
| Reverse Recovery Time | T _{rr} | 4nS | I_F =10mA V_R = 6V R_L =100 Ω |

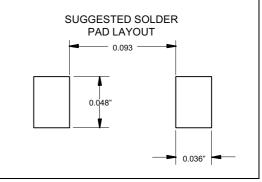
Note: 1. Valid provided that terminals are kept at ambient temperature

1N4448W

500mW 100 Volts Switching Diode



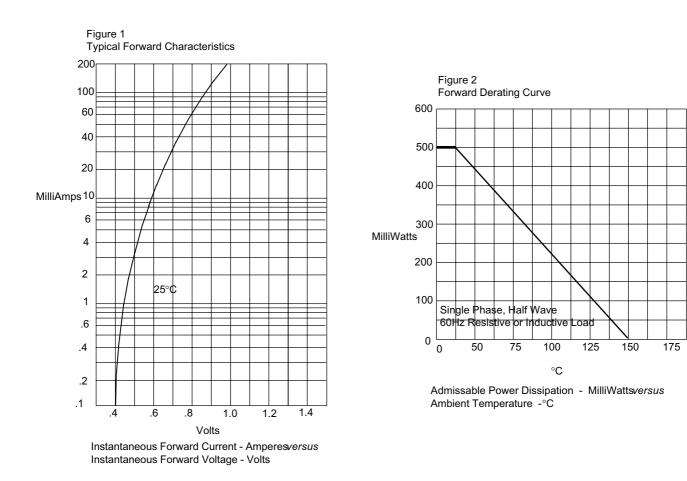
| DIMENSIONS | | | | | |
|------------|--------|------|------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| Α | .140 | .152 | 3.55 | 3.85 | |
| В | .100 | .112 | 2.55 | 2.85 | |
| С | .055 | .071 | 1.40 | 1.80 | |
| D | | .053 | | 1.35 | |
| E | .012 | .031 | 0.30 | .78 | |
| G | .006 | | 0.15 | | |
| Н | | .01 | | .25 | |
| J | | .006 | | .15 | |

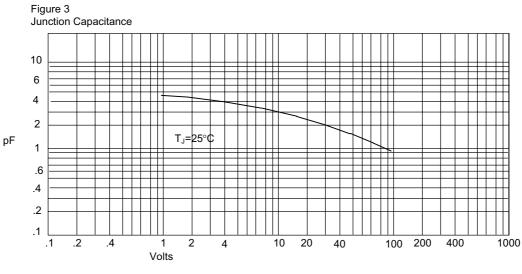


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Junction Capacitance - pFversus Reverse Voltage - Volts

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Downloaded from Arrow.com.





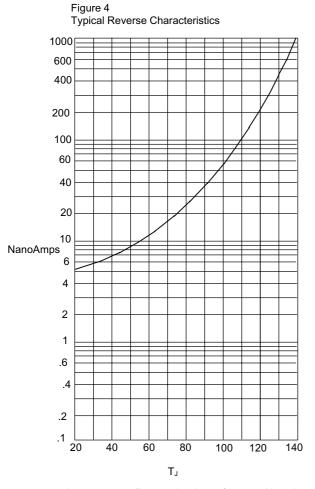


Figure 5 Peak Forward Surge Current 600 500 400 300 MilliAmps 200 100 0 1 2 4 6 8 10 20 40 60 80 100 Cycles

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - NanoAmperes/ersus Junction Temperature - $^\circ\text{C}$

2018/10/12



Revision: D



Ordering Information

| Device | Packing |
|------------------|----------------------|
| (Part Number)-TP | Tape&Reel:3Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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