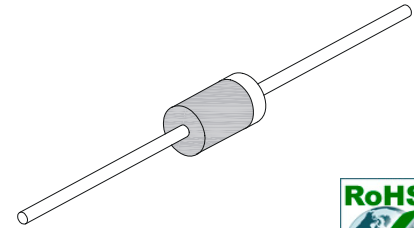


3.0A Glass Passivated Rectifier

Features

- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High Reliability
- High Temperature Soldering Guaranteed 260°C/10 seconds
.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



DO-201AD



Mechanical Data

| | |
|-------------------|---|
| Case: | Molded Plastic |
| Epoxy: | Meets UL 94V-0 flammability rating |
| Terminals: | Axial leads, solderable per MIL-STD-202, Method 208 |
| Polarity: | Cathode indicated by color band |
| Weight: | 0.042 Ounce, 1.2 gram |

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

| Symbol | Description | T3A05G | T3A10G | T3A20G | T3A40G | T3A60G | T3A80G | T3A100G | Unit |
|---------------|---|-------------|--------|--------|--------|--------|--------|---------|-------------|
| VRRM | Maximum Repetitive Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| VRMS | Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| VDC | Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| IO(AV) | Maximum Average Forward Rectified Current @ $T_a=75^{\circ}C$ | 3.0 | | | | | | | A |
| IFSM | Peak Forward Surge Current (Note1) | 125 | | | | | | | A |
| TJ | Operating Junction Temperature Range | -55 to +150 | | | | | | | $^{\circ}C$ |
| TSTG | Storage Temperature Range | -55 to +175 | | | | | | | $^{\circ}C$ |

3.0A Glass Passivated Rectifier

T3A05G - T3A100G

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

| Symbol | Description | T3A05G | T3A10G | T3A20G | T3A40G | T3A60G | T3A80G | T3A100G | Unit |
|-----------------|---|--------------------|--------|--------|--------|--------|--------|---------|---------------|
| V_F | Maximum Forward Voltage @ $I_F=3.0A$ | 1.1 | | | | | | | V |
| I_R | Maximum DC Reverse Current at Rated DC Blocking Voltage | $T_A=25^{\circ}C$ | | | 5.0 | | | | μA |
| | | $T_A=100^{\circ}C$ | | | 100 | | | | μA |
| C_J | Typical Junction Capacitance (Note2) | 40 | | | | | | | pf |
| $R_{\theta-JA}$ | Maximum Thermal Resistance (Note3) | 15 | | | | | | | $^{\circ}C/W$ |

- Note:**
1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
 2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
 3. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

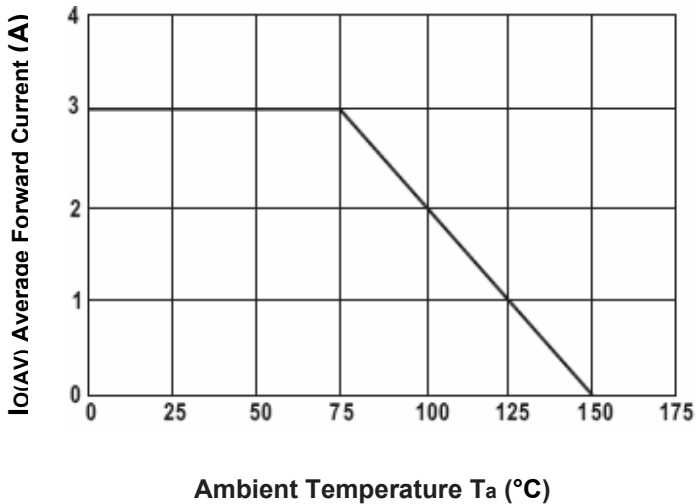
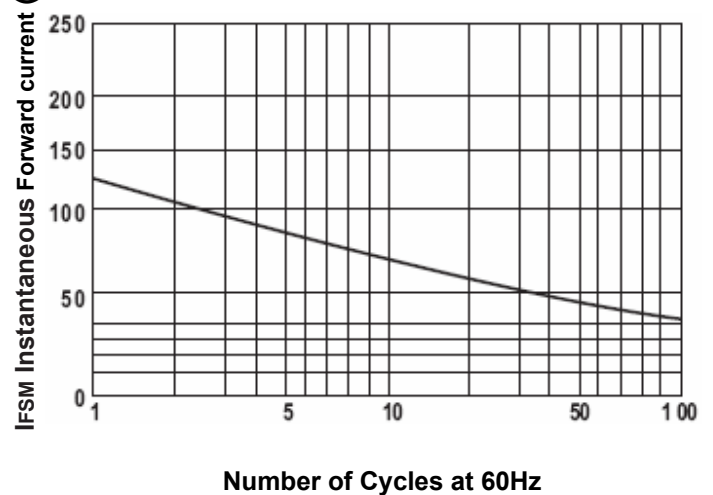


Fig.2-Max. Non-Repetitive Forward Surge Current



3.0A Glass Passivated Rectifier

T3A05G - T3A100G

Fig.3-Typical Instantaneous Forward Characteristics

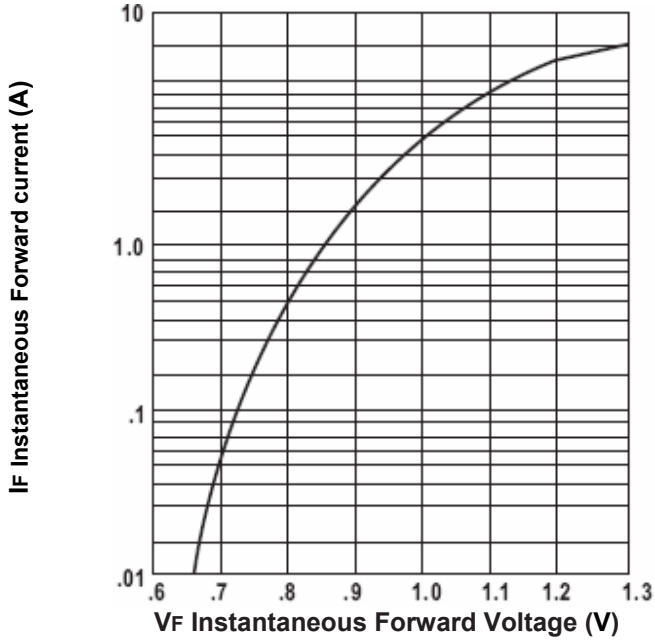


Fig.4- Typical Reverse Characteristics

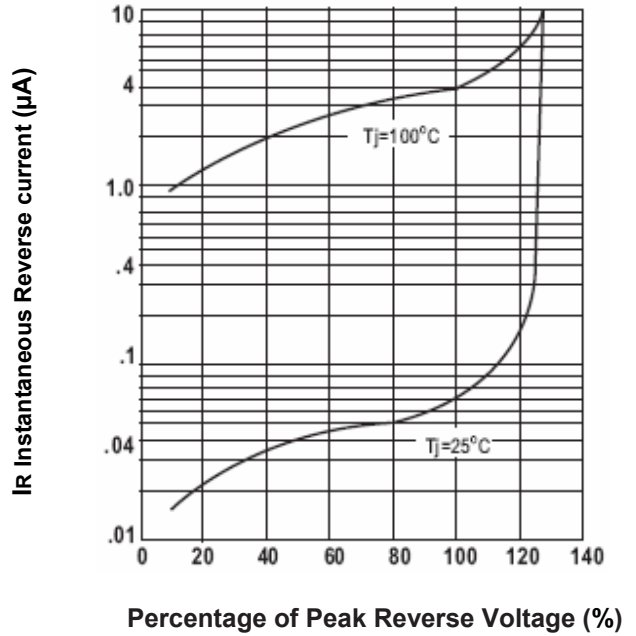
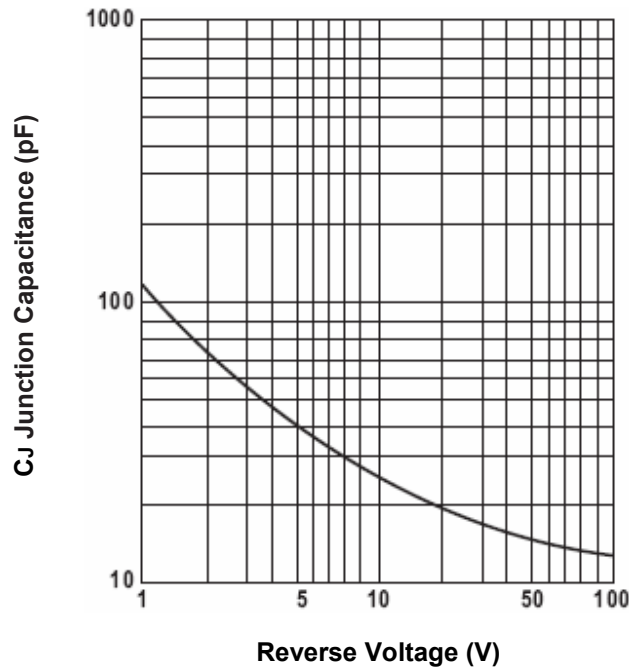


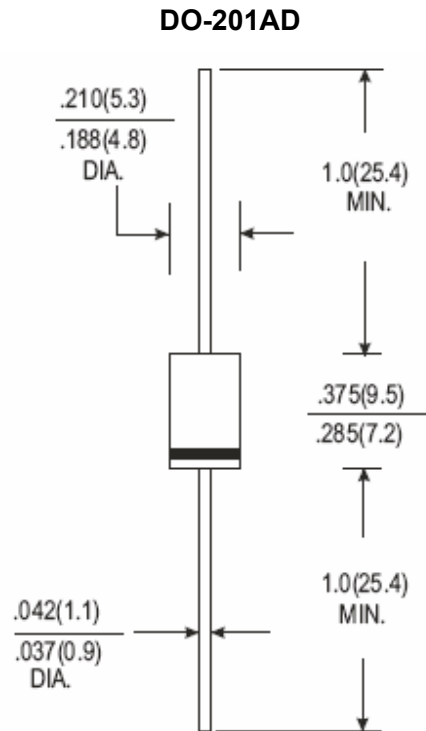
Fig.5-Typical junction capacitance



3.0A Glass Passivated Rectifier

T3A05G - T3A100G

Dimensions in inches (mm)



3.0A Glass Passivated Rectifier

T3A05G - T3A100G

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931