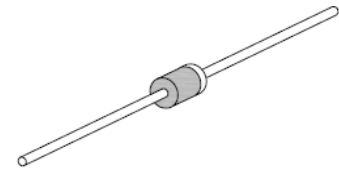


**1.0A Sintered Glass Passivated Super Fast Recovery Rectifier**

**Features**

- Sintered glass passivated (SGP) rectifier chip
- Low forward voltage, high current capability
- Low leakage current, high surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds  
.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



**DO-41  
(DO-204AL)**



**Mechanical Data**

<b>Case:</b>	JEDEC DO-204AL(DO-41) molded plastic body
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Plated axial leads, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.012 ounces, 0.3 gram

**Maximum Ratings and Electrical Characteristics** ( $T_A=25^{\circ}\text{C}$  unless noted otherwise)

Symbol	Description	EGP10A	EGP10B	EGP10D	EGP10G	EGP10J	EGP10K	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	1.0						A	0.375" (9.5mm) lead length(Fig.1)
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	30				25		A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

# 1.0A Sintered Glass Passivated Super Fast Recovery Rectifier

## EGP10A - EGP10K

Symbol	Description	EGP10A	EGP10B	EGP10D	EGP10G	EGP10J	EGP10K	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	0.95			1.25	1.70	2.20	V	I <sub>F</sub> =1.0 A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5					μA		TA=25° C
		30							TA=125° C
		50							TA=150° C
<b>T<sub>rr</sub></b>	Typical Reverse Recovery Time	35					nS	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A, I <sub>rr</sub> =0.25A	
<b>C<sub>J</sub></b>	Typical Junction Capacitance	17					pF	V <sub>R</sub> =4V, f=1MHz	
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance	50					°C / W	Note	
<b>T<sub>J</sub></b>	Operating Temperature range	-55 to +175					°C		
<b>T<sub>STG</sub></b>	Storage Temperature Range	-55 to +175							

**Note:** Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B mounted.

### Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

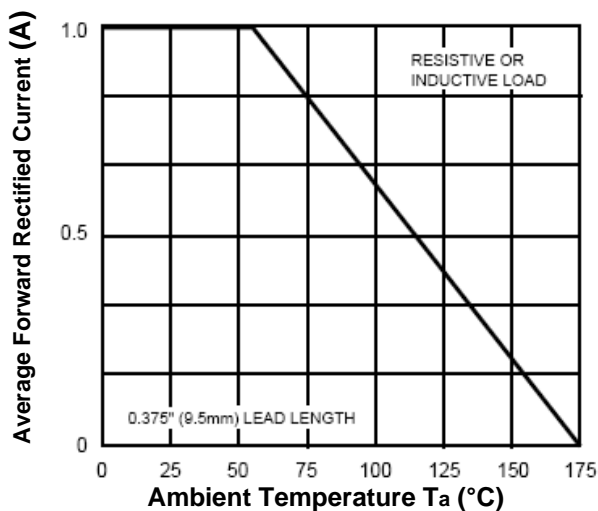
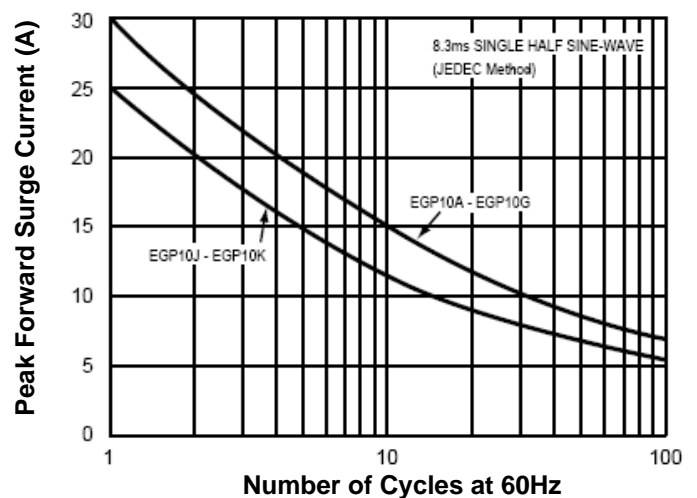


Fig.2-Max. Non-Repetitive Forward Surge Current



# 1.0A Sintered Glass Passivated Super Fast Recovery Rectifier

## EGP10A - EGP10K

Fig.3- Typical Forward Characteristics

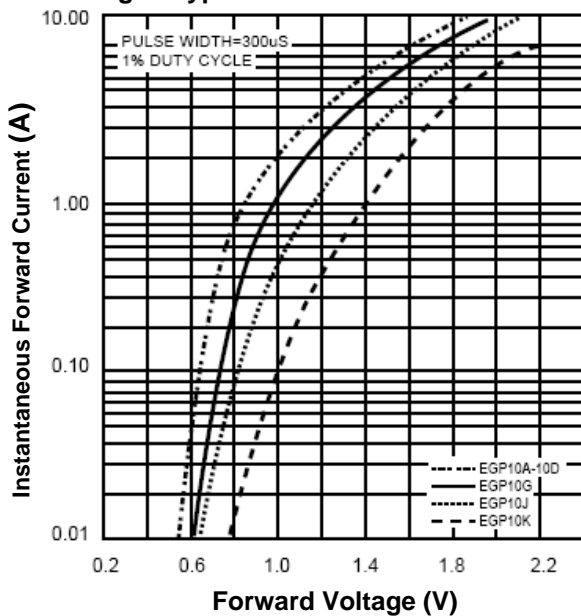


Fig.4-Typical Reverse Characteristics

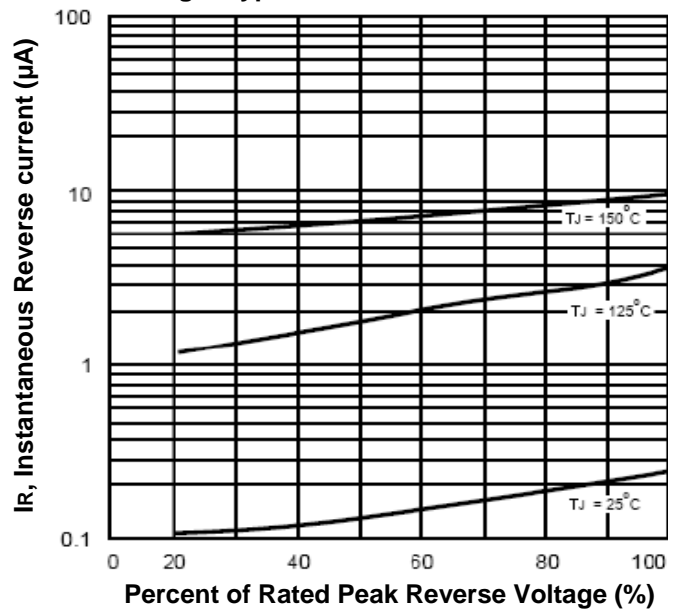
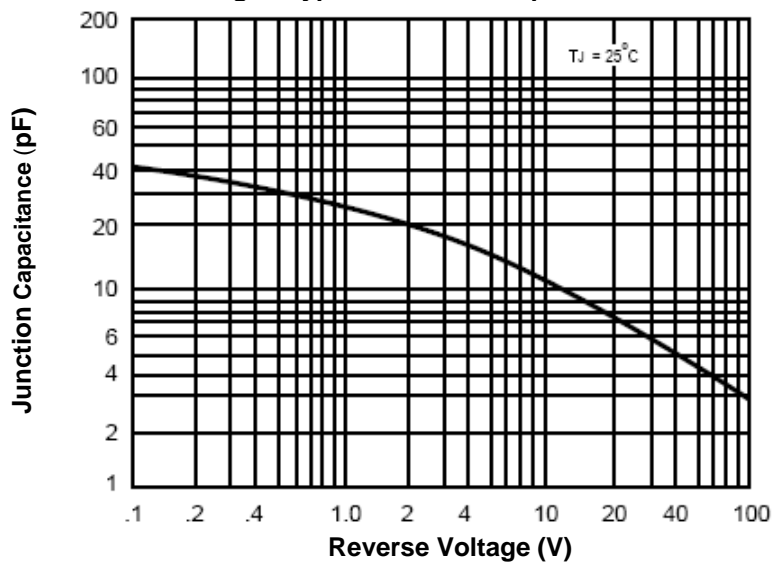


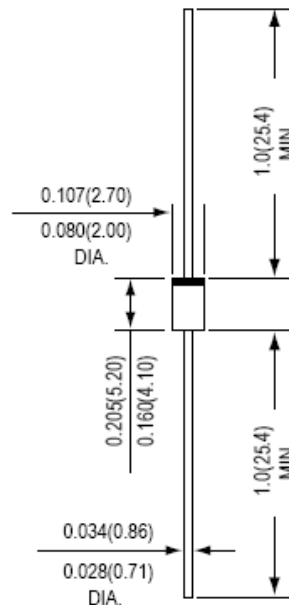
Fig.5- Typical Junction Capacitance



# 1.0A Sintered Glass Passivated Super Fast Recovery Rectifier

EGP10A - EGP10K

Dimensions in inches (mm)



**DO-41  
(DO-204AL)**

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](mailto:taitron@taitroncomponents.com)

Http://[www.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

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931